ORDER NO. HAD8606586A4

Service Manual

Stereo DC Control Amplifier
SU-A80

Color

(K)...Black Type

Color	Areas
(K)	[PA].... Far East PX.
(K)	[PE].... European Military.

Please use this manual together with the service manual for Model No. SU-A6MK2, Order No. HAD84062824C2.

SPECIFICATIONS
(IHF '78)

■ AUDIO SECTION

Frequency response	
PHONO MM	20 Hz~20 kHz
	RIAA standard curve ±0.2 dB
	20 Hz~100 kHz
	RIAA standard curve ±0.5 dB
TUNER, CD, VIDEO/AUX 1, TV/AUX 2, TAPE 1/EXT, TAPE 2/VTR, TAPE 3/DA TAPE /DA PROCESSOR	20 Hz~20 kHz, +0 dB, −0.1 dB
	0.5 Hz~200 kHz, +0 dB, −3 dB
Total harmonic distortion (20 Hz~20 kHz)	
PHONO MM	0.002%
	(0.5V output at vol. −30 dB)
	0.002%
	(3V output at vol. max.)
PHONO MC	0.015%
	(0.5V output at vol. −30 dB)
	0.003%
	(3V output at vol. max.)
TUNER, CD, VIDEO/AUX 1, TV/AUX 2, TAPE 1/EXT, TAPE 2/VTR, TAPE 3/DA TAPE /DA PROCESSOR	0.002%
	(0.5V output at vol. −30 dB)
	0.002%
	(3V output at vol. max.)
Input sensitivity	
PHONO MM	0.63 mV (2.5 mV, IHF '66)
MC	25 μV (100 μV, IHF '66)
TUNER, CD, VIDEO/AUX 1, TV/AUX 2, TAPE 1/EXT, TAPE 2/VTR, TAPE 3/DA TAPE /DA PROCESSOR	36 mV (150 mV, IHF '66)
S/N (IHF, A)	
PHONO MM	80 dB (90 dB, IHF '66)
MC	77 dB (75 dB, IHF '66)
TUNER, CD, VIDEO/AUX 1, TV/AUX 2, TAPE 1/EXT, TAPE 2/VTR, TAPE 3/DA TAPE /DA PROCESSOR	97 dB (106 dB, IHF '66)
Maximum input voltage	
PHONO MM	150 mV (160 mV, 1 kHz)
Input impedance	
PHONO MM	47 kilohms
MC	220 ohms
TUNER, CD, VIDEO/AUX 1, TV/AUX 2, TAPE 1/EXT, TAPE 2/VTR, TAPE 3/DA TAPE /DA PROCESSOR	47 kilohms
Output voltage	
PRE OUT	rated 2V
	max. 8V
TAPE 1/EXT, TAPE 2/VTR, TAPE 3/DA TAPE /DA PROCESSOR (REC OUT)	150 mV
Output impedance	
TAPE 1/EXT, TAPE 2/VTR, TAPE 3/DA TAPE /DA PROCESSOR (REC OUT)	600 ohms
PRE OUT	2 ohms
Turnover frequency	
BASS	500 Hz
SUPER BASS (12 dB/oct.)	75 Hz, 150 Hz
TREBLE	2 kHz
SUPER TREBLE	8 kHz
SUBSONIC FILTER (−12 dB/oct)	20 Hz
Shelving tone	
BASS (50 Hz)	−5 dB~+5 dB
SUPER BASS (30 Hz)	0 dB~+10 dB
TREBLE (20 kHz)	−5 dB~+5 dB
SUPER TREBLE (50 kHz)	−10 dB~+10 dB
Muting	−20 dB

■ VIDEO SECTION
(VIDEO/AUX 1, TV/AUX 2, TAPE 2/VTR, TAPE 3/DA TAPE /DA PROCESSOR)

Output voltage (at 1V input, 75 ohms unbalanced)	1±0.1Vp-p
Maximum input voltage	1.5Vp-p
Input/output impedance	75 ohms unbalanced

Technics

Matsushita Electric Trading Co., Ltd.
P.O. Box 288, Central Osaka Japan

Panasonic Tokyo Office
Matsushita Electric Trading Co., Ltd.
6th Floor, World Trade Center Bldg.,
No. 4-1, Hamamatsu-cho 2-Chome, Minato-ku,
Tokyo 105, Japan

■ GENERAL

Power consumption	17W
Power supply	AC 110V/120V/220V/240V, 50 Hz/60 Hz
Dimensions (W×H×D)	476 × 99.5 × 360 mm (18-23/32" × 3-7/8" × 14-3/16")
Weight	6.7 kg (14.74 lb.)

Note:
Total harmonic distortion is measured by the digital spectrum analyzer (H.P. 3045 system).

(Specifications are subject to change without notice for further improvement.)

CHANGES

■ REPLACEMENT PARTS LIST

Notes: Please use this part number for parts order.

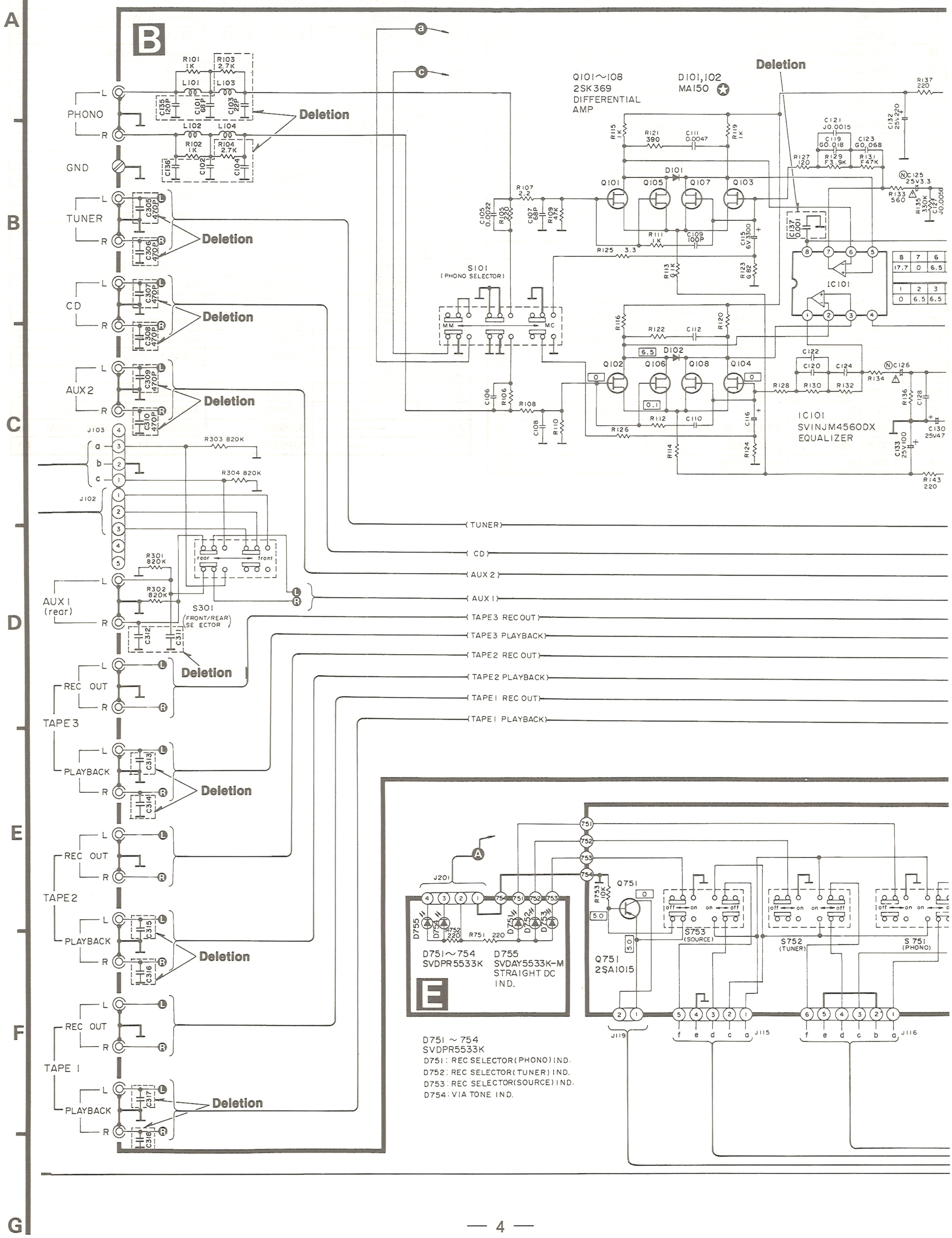
Ref. No.	Change of Parts No.		Part Name & Description
	SU-A6MK2 (EGA) ➡	SU-A80 (PA, PE)	
DIODES			
D269	MA1051M	———	Deletion
D221	———	MA1051M	5.1V, Zener (Addition)
D917, 918	———	MA4047M	4.7V, Zener (Addition)
COILS			
L103, 104	SLQW471−1P3	———	Deletion
L901	Addition	SLQZ650MH49	Choke
L902, 903	SLQX400−D	———	Deletion
RESISTORS			
R103, 104	ERD25FJ272	———	Deletion
R111, 112	———	ERD25FJ102	1K (Addition)
R271	———	ERD25FJ330	33 (Addition)
R276	———	ERD25FJ103	10K (Addition)
R317, 318	ERD25FJ102	———	Deletion
R419	ER025CKF7500	ERD25FJ750	75
R423	ER025CKF7500	ERD25FJ750	75
R908	———	ERDS2TJ562	5.6K (Addition)

Ref. No.	Change of Parts No.		Part Name & Description
	SU-A6MK2 (EGA) ➡	SU-A80 (PA, PE)	
CAPACITORS			
C101, 102	ECCD1H680KC	———	Deletion
C103, 104	ECCD1H220KC	———	Deletion
C135, 136	ECCD1H121KC	———	Deletion
C305, 306	ECKD1H471KB	———	Deletion
C307, 308	ECKD1H471KB	———	Deletion
C309, 310	ECKD1H471KB	———	Deletion
C311, 312	ECKD1H471KB	———	Deletion
C313	ECKD1H471KB	———	Deletion
C316, 317	ECKD1H471KB	———	Deletion
C318	ECKD1H471KB	———	Deletion
C319, 320	ECKD1H471KB	———	Deletion
C813, 814	ECKD1H471KB	———	Deletion
C815	ECKD1H332MD	———	Deletion
C816	ECKD1H103ZF	———	Deletion
C817, 818	ECCD1H390KC	———	Deletion

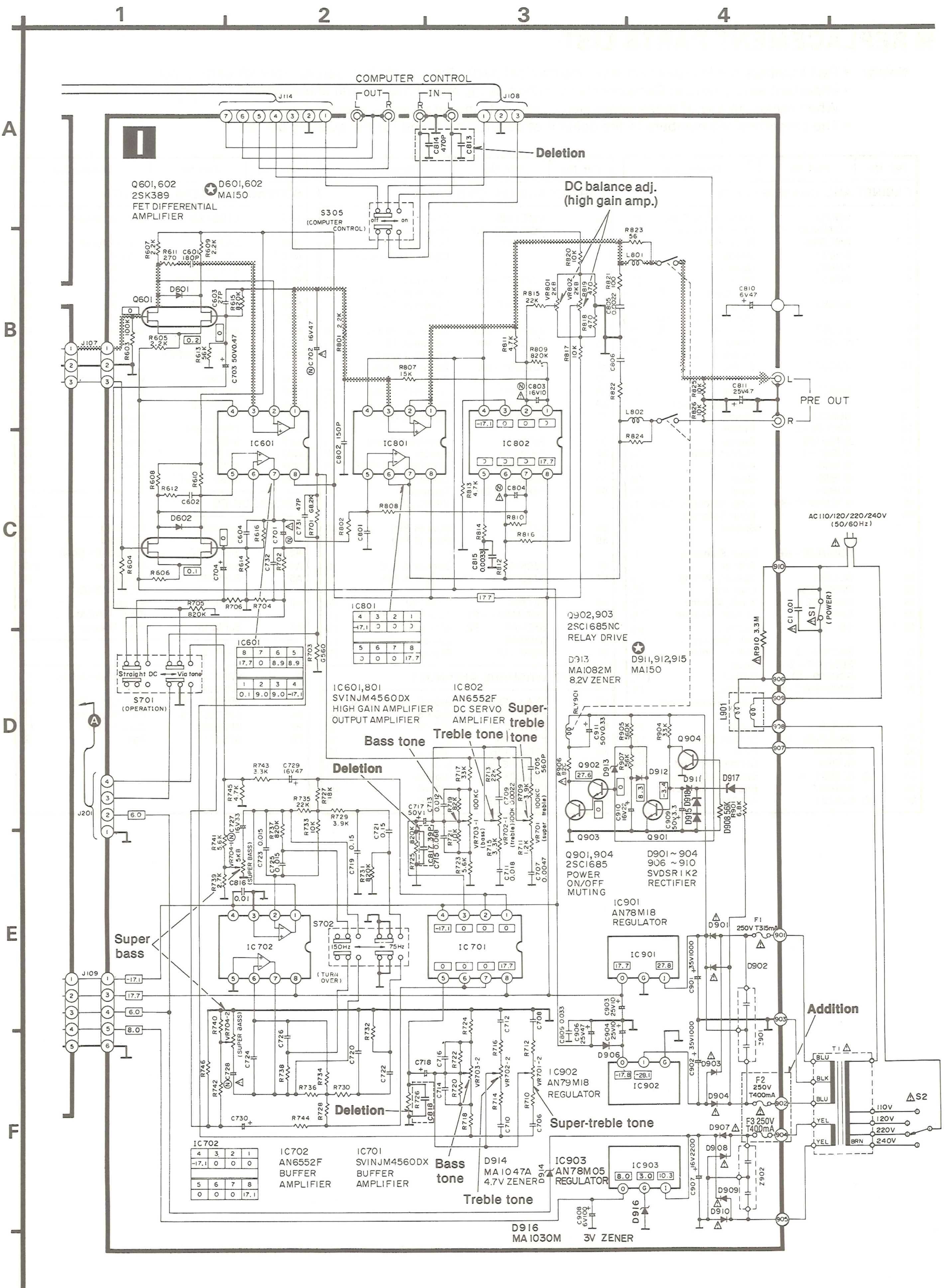
Ref. No.	Change of Parts No.		Part Name & Description
	SU-A6MK2 (EGA) →	SU-A80 (PA, PE)	
CABINET and CHASSIS PARTS			
1	SGU187	SGU187−2	Transparant Plate (1)
2	SGWUA6MK2−KN	SGWUA80−KP	Front Panel Ass'y (1)
13	SBC639	SBC639−2	Button (1)
19	SBCUA6MK2−KN	SGXUA6MK2−KN	Input Selector Plate (1)
21	SGXUA6MK2−KN	SBCUA80−KP	Input Selector Button (1)
24	SBN1169	SBN1212	Volume Knob (1)
26	SBC621	SBC621−1	Rec Selector Button (1)
27	SBC627	SBC666−3	Power Button (1)
28	SBC1167	SBC1167−2	Knob (5)
29	SBC399T	SBC399−2T	Button (11)
32	SKU8790−3	SKUUA80−KP	Bottom Board (1)
33	SKL247−2	SKL295	Foot (4)
35 ⚠	———	SJS601−3	Addition, AC Outlet (1)
37 ⚠	SJA138−3	SJA121	AC Cord (1)
38	SMC1135	SMC1135−1	Shield Cover (1)
39	SGP6050−1A	SGPUA80−KP	Rear Panel (1)
47	SKC350B2	SKCUA80−KP	Cabinet (1)
59	———	SKZUA80−KP1	Addition, Side Panel (Right) (1)
60	———	SKZUA80−KP2	Addition, Side Panel (Left) (1)
61	———	SMX836	Addition, Insulation Cover (1)
62	———	SMN1912	Addition, Bracket (1)
SCREWS, WASHERS and NUT			
N1	XTB3+8BFZ	XYA3+EB8FZ	⊕3×8, Front Panel (4)
N2	XWC3B	———	Delection, Washer (0)
N4	XWA3B	XYNS3+C6−1S	⊕3×6 (2)
N7	XTB3+8B	XYA3+EB8	⊕3×8 (1)
N8	XWC3B	SHW32K150	Washer (1)

Ref. No.	Change of Parts No.		Part Name & Description
	SU-A6MK2 (EGA) →	SU-A80 (PA, PE)	
N9	XTB3+8B	XTB3+8G	⊕3×8 (5)
N10	XSN3+6S	XYNS3+C6−1S	⊕3×6 (5)
N11	XWA3B	———	Delection, Washer (0)
N14	XSN3+6S	XYNS3+C6−1S	⊕3×6 (2)
N15	XWA3B	———	Delection, Washer (0)
N18	XTB3+12BFZ	XTW3+8T	⊕3×8 (4)
N20	XTV3+8B	XWA3B	Washer (2)
N22	XSS5+12FIS	XSS5+40FVS	⊕5×40, Side Panel (8)
N23	XTB3+8BFZ	XTBS3+8BFZ1	⊕3×8 (17)
N26	XTB3+8BFN	XTB4+8F	⊕4×8 (2)
N28	———	XTW3+8H	Addition, ⊕3×8 (5)
N29	———	SNE98	Addition, Washer (8)
N30	———	XWA7B	Addition, Washer (8)
N31	———	XWE5X12FVC	Addition, Washer (8)
N32	———	XTB3+14BFZ	Addition, ⊕3×14 (2)
PACKING PARTS			
P1	SPP689	SPP723	Polyethylene Bag (1)
P3	SPS2955−6	SPS2955−9	Pad, Left Side (1)
P4	SPS2957−5	SPS2957−9	Pad, Right Side (1)
P5	SPG4791	SPG5682	Carton Box (1)
P6	———	SPS4747	Addition, Pad (2)
P7	———	SPH207	Addition, Sheet (1)
ACCESSORIES			
A3	SQF12031	SQF12713	Instruction Book (1)
A5	———	SJP9005	Addition, Adaptor (RCA → BNC) (1)
A6	———	SJP9007	Addition, Adaptor (BNC → RCA) (1)
A7	———	SJP9215	Addition, Plug Adaptor (1)

■ SCHEMATIC DIAGRAM (Addition and Deletion)


1
2
3
4
A
B
C
D
E
F
G
B
PHONO
L
R
GND
R101 1K
R103 2.7K
L101
L103
C135 120P
C101 68P
C103 22P
L102
L104
R102 1K
R104 2.7K
C136
C102
C104
Deletion
TUNER
C305 470P
C306 470P
Deletion
CD
C307 470P
C308 470P
Deletion
AUX2
C309 470P
C310 470P
Deletion
J103
a
b
c
R303 820K
R304 820K
J102
R301 820K
R302 820K
rear
front
AUX1 (rear)
S301 (FRONT/REAR SELECTOR)
C312
C311
Deletion
REC OUT
TAPE3
PLAYBACK
C313
C314
Deletion
REC OUT
TAPE2
PLAYBACK
C315
C316
Deletion
REC OUT
TAPE 1
PLAYBACK
C317
C318
Deletion
a
c
Q101~108
2SK369
DIFFERENTIAL AMP
D101,102
MA150
Deletion
R137 220
C132 25V220
R115 1K
R121 390
C111 0.0047
R119 1K
C121 J0.0015
C119 G0.018
C123 G0.068
R127 120
R129 F3.9K
R131 F47K
C125 25V3.3
R133 560
R135 330K
C127 J0.0056
D101
Q101
Q105
Q107
Q103
R107 2.2
C105 0.0022
R105 220
C107 68P
R109 47K
R111 1K
C109 100P
C115 6V3300
C137 0.001
R125 3.3
S101 (PHONO SELECTOR)
MM
MC
R113 1K
R123 G82
IC101
8 7 6
17.7 0 6.5
1 2 3
0 6.5 6.5
R116
R122
C112
R120
6.5
D102
Q102
Q106
Q108
Q104
0
0
0.1
C122
C120
C124
C126
R134
R128
R130
R132
C106
R106
R108
R112
C110
C116
R136
C128
C108
R110
R126
IC101
SVINJM4560DX
EQUALIZER
C130 25V47
C133 25V100
R114
R124
R143 220
TUNER
CD
AUX 2
AUX 1
TAPE3 REC OUT
TAPE3 PLAYBACK
TAPE2 REC OUT
TAPE2 PLAYBACK
TAPE1 REC OUT
TAPE1 PLAYBACK
A
J201
751
752
753
754
R753 10K
Q751
0
5.0
5.0
off on
on off
S753 (SOURCE)
S752 (TUNER)
S751 (PHONO)
D755
D754
R752 220
R751 220
D751
D752
D753
D751~754
SVDPR5533K
D755
SVDAY5533K-M
STRAIGHT DC IND.
Q751
2SA1015
E
J119
J115
J116
f e d c a
f e d c b a

D751 ~ 754
SVDPR5533K
D751: REC SELECTOR (PHONO) IND.
D752: REC SELECTOR (TUNER) IND.
D753: REC SELECTOR (SOURCE) IND.
D754: VIA TONE IND.

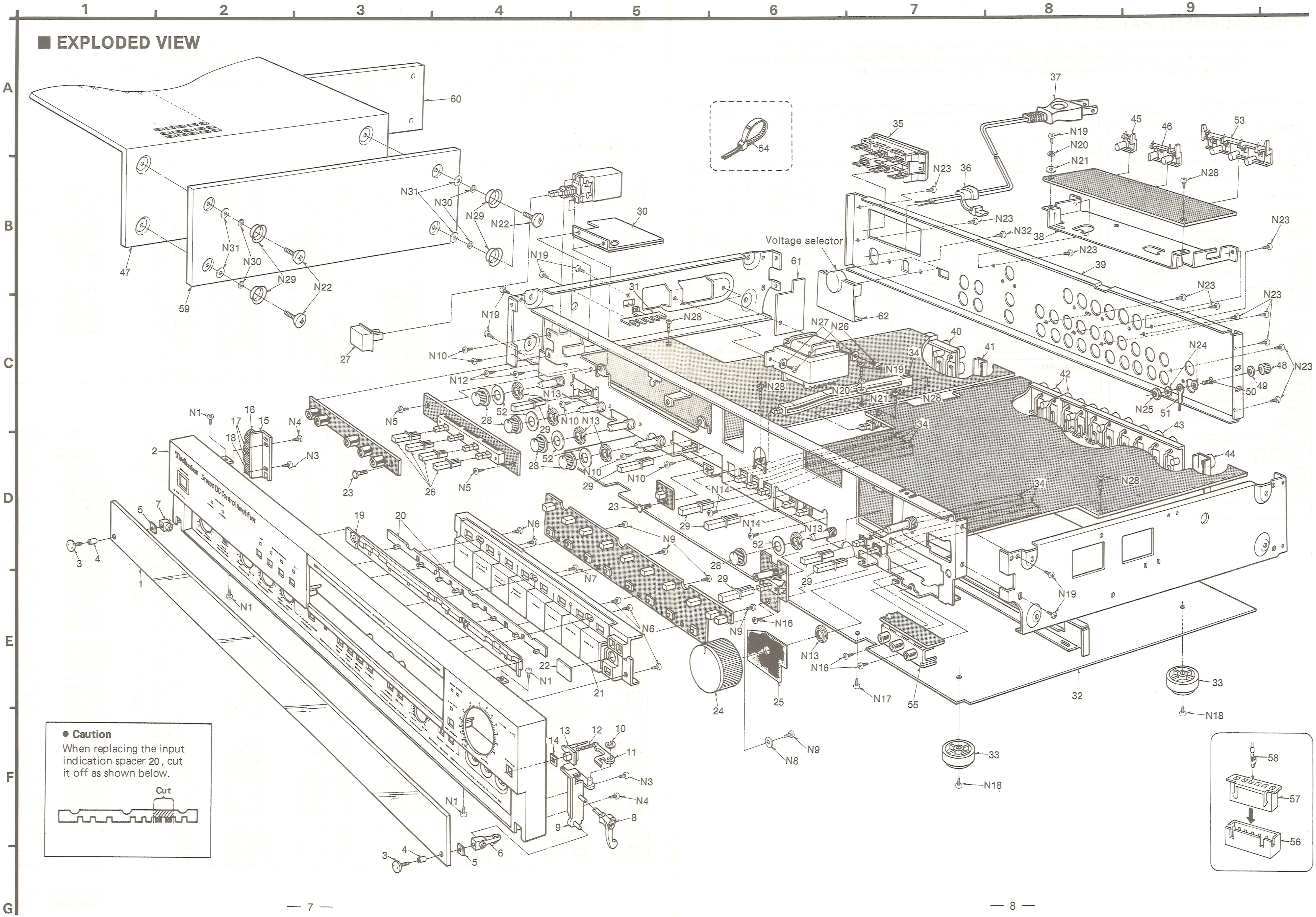
1
2
3
4
A
B
C
D
E
F
G
I
COMPUTER CONTROL
OUT
IN
L
R
J114
J108
Deletion
Q601,602
2SK389
FET DIFFERENTIAL
AMPLIFIER
D601,602
MA150
DC balance adj.
(high gain amp.)
S305
(COMPUTER CONTROL)
off
on
PRE OUT
L
R
J107
IC601
IC801
IC802
IC601
8 7 6 5
17.7 0 8.9 8.9
1 2 3 4
0.1 9.0 9.0 -17.1
IC801
4 3 2 1
-17.1 0 0 0
5 6 7 8
0 0 0 17.7
Straight DC
Via tone
S701
(OPERATION)
IC601,801
SVINJM4560DX
HIGH GAIN AMPLIFIER
OUTPUT AMPLIFIER
IC802
AN6552F
DC SERVO
AMPLIFIER
Super-treble tone
Bass tone
Treble tone
Deletion
Q902,903
2SC1685NC
RELAY DRIVE
D913
MA1082M
8.2V ZENER
D911,912,915
MA150
AC110/120/220/240V
(50/60Hz)
S1
(POWER)
R910 3.3M
RLY901
L901
Q901,904
2SC1685
POWER
ON/OFF
MUTING
D901~904
906~910
SVDSR1K2
RECTIFIER
IC901
AN78M18
REGULATOR
J201
Super bass
J109
IC702
S702
150Hz
75Hz
(TURN OVER)
IC701
F1
250V T315mA
Addition
T1
F2
250V
T400mA
F3 250V
T400mA
BLU
BLK
YEL
BRN
S2
110V
120V
220V
240V
IC902
AN79M18
REGULATOR
Super-treble tone
Deletion
IC702
4 3 2 1
-17.1 0 0 0
5 6 7 8
0 0 0 17.1
IC702
AN6552F
BUFFER
AMPLIFIER
IC701
SVINJM4560DX
BUFFER
AMPLIFIER
Bass tone
Treble tone
D914
MA1047A
4.7V ZENER
IC903
AN78M05
REGULATOR
D916
MA1030M
3V ZENER

■ REPLACEMENT PARTS LIST

Notes:
- Part numbers are indicated on most mechanical parts. Please use this part number for parts order.
- Important safety notice: Components identified by ⚠ mark have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.
- The parenthesized numbers in the column of description stand for the quantity per set.

Ref. No.	Part No.	Description	
CABINET AND CHASSIS PARTS			
1	SGU187−2	Transparent Plate	(1)
2	SGWUA80−KP	Front Panel Ass'y	(1)
3	SNE2083	Rock Pin	(2)
4	SHG6131	Spacer	(2)
5	SHR9575	Spacer	(2)
6	SUB51	Hinge, Operation Lever (R)	(1)
7	SUB53	Hinge, Operation Lever (L)	(1)
8	SUB57	Operation Lever (R)	(1)
9	SUE23−1	Holder, Operation Lever	(1)
10	XUC3FT	E Ring	(1)
11	SUB55	Hinge, Operation Lever	(1)
12	SUS223	Spring	(1)
13	SBC639−2	Button	(1)
14	SHG6129	Spacer	(1)
15	SUE25−1	Holder, Gear	(1)
16	SUB65	Gear	(1)
17	SUB59	Gear	(2)
18	SUB63	Gear	(1)
19	SGXUA6MK2−KN	Input Selector, Plate	(1)
20	SGL165	Input Selector, Spacer	(1)
21	SBCUA80−KP	Input Selector, Button	(1)
22	SDU241	Spacer, Muting	(1)
23	RHR969ZA	Lock Pin	(2)
24	SBN1212	Knob, Volume	(1)
25	SHP9377	Spacer, Volume	(1)
26	SBC621−1	Button, Rec. Selector	(4)
27	SBC666−3	Button, Power	(1)
28	SBN1167−2	Knob	(5)
29	SBC399−2T	Button	(11)
30	SMCUA6MK2−KN	Bracket, Power Transformer	(1)
31	RJR2B	Holder	(1)
32	SKUUA80−KP	Bottom Board	(1)
33	SKL295	Foot	(4)
34	SUB99	Connection Rod	(6)
35	⚠ SJS601−3	Socket, AC Outlet	(1)
36	SHR127	Bushing, AC Outlet	(1)
37	⚠ SJA121	AC Cord	(1)
38	SMC1135−1	Shield Cover	(1)
39	SGPUA80−KP	Rear Panel	(1)
40	SJF3057−3N	Terminal, Computer Control	(1)
41	SJF3057−4A	Terminal, Output	(1)
42	SJF3057−3N	Terminal, Tape 1, 2	(2)
43	SJF3059−7N	Terminal, Tape 3, Tuner	(1)
44	SJF3225−3SA	Terminal, Phono	(1)
45	SJF3061−4N	Terminal, TV, VIDEO, Tape 3	(1)
46	SJF3061−3N	Terminal, Tape 2	(1)
47	SKCUA80−KP	Cabinet	(1)
48	SNE4017	Terminal, Grand	(1)
49	SNTA421	Terminal, Grand	(1)
50	SNEA204−2S	Terminal, Grand	(1)
51	RJT204A	Terminal, Grand	(1)
52	SHP9319	Spacer	(5)
53	SJF3061N	Terminal, OUTPUT	(1)
54	SHR301	Clamp	(8)
55	SJF3061−2N	Terminal, VIDEO Signal	(1)
56	SJT3511	Post (5 Pin)	(2)
56	SJT3611	Post (6 Pin)	(1)
57	SJS5331	Socket (3 Pin)	(1)
57	SJS5629	Socket (6 Pin)	(1)
58	SJT783	Terminal	(9)
59	SKZUA80−KP1	Side Board (Right)	(1)
60	SKZUA80−KP2	Side Board (Left)	(1)
61	SMX836	Insulation Cover	(1)
62	SMN1912	Bracket	(1)
SCREWS, WASHERS AND NUTS			
N1	XYA3+EB8FZ	⊕3×8, Front Panel	(4)
N3	XSN3+6S	⊕3×6	(2)
N4	XYNS3+C6−1S	⊕3×6	(2)
N5	XTB3+8B	⊕3×8	(2)
N6	XTB3+10B	⊕3×10	(5)
N7	XYA3+EB8	⊕3×8	(1)
N8	SHW32K150	Washer	(1)
N9	XTB3+8G	⊕3×8	(5)
N10	XYNS3+C6−1S	⊕3×6	(5)
N12	XTB3+8B	⊕3×8, Shield	(2)
N13	SNE4021	Nut, Volume	(6)
N14	XYNS3+C6−1S	⊕3×6	(2)
N16	XTB3+8B	⊕3×8	(3)
N17	XTB3+8BFZ	⊕3×8	(8)
N18	XTW3+8T	⊕3×8	(4)
N19	XTB3+8B	⊕3×8	(8)
N20	XWA3B	Washer	(2)
N21	XWG3	Washer	(2)
N22	XSS5+40FVS	⊕5×40 Cabinet	(8)
N23	XTBS3+8BFZ1	⊕3×8	(19)
N24	XWC4B	Washer	(2)
N25	XNG4BS	Nut	(1)
N26	XTB4+8F	⊕4×8	(2)
N27	XWT4	Washer	(2)
N28	XTW3+8H	⊕3×8	(5)
N29	SNE98	Washer	(8)
N30	XWA7B	Washer	(8)
N31	XWE5X12FVC	Washer	(8)
N32	XTB3+14BFZ	⊕3×14	(2)
ACCESSORIES			
A1	SJP2239	Pin Cord	(1)
A2	TSX299	Pin Cord	(1)
A3	SQF12713	Instruction Book	(1)
A4	SJPA11−1	Short Pin	(10)
A5	SJP9005	Adaptor (RCA → BNC)	(4)
A6	SJP9007	Adaptor (BNC → RCA)	(1)
A7	SJP9215	Plag Adaptor	(1)
PACKING PARTS			
P1	SPP723	Polyethylene Bag	(1)
P2	SPH207	Sheet	(1)
P3	SPS2955−9	Pad, Left Side	(1)
P4	SPS2957−9	Pad, Right Side	(1)
P5	SPG5682	Carton Box	(1)
P6	SPS4747	Pad	(2)

■ EXPLODED VIEW


1
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6
7
8
9
A
B
C
D
E
F
G
60
47
59
N31
N30
N29
N22
27
30
N19
31
N28
61
Voltage selector
62
54
35
N23
36
37
N32
38
39
N19
N20
N21
45
46
53
N28
40
41
34
N27
N26
N20
N21
N24
48
49
50
51
N25
42
43
44
N10
N12
N13
28
52
29
N5
26
23
N1
16
17
15
18
N4
N3
2
Technics
Stereo DC Control Amplifier
5
7
3
4
1
19
20
N6
N9
N7
22
21
N14
24
25
N16
N17
55
32
33
N18
N8
13
12
10
11
14
8
9
6
58
57
56
Cut

● Caution

When replacing the input indication spacer 20, cut it off as shown below.

REPLACEMENT PARTS LIST

Notes:
- Part numbers are indicated on most mechanical parts. Please use this part number for parts order.
- Important safety notice: Components identified by ⚠ mark have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.

Ref. No.	Part No.	Description
INTEGRATED CIRCUITS		
IC101, 501, 601, 701, 801	SVINJM4560DX	Equalizer, Drive Buffer, Amp.
IC201, 202, 204, 205	SVIUPD4002BC	Input Selector Control
IC203	SVIUPD4072BC	Input Selector Control
IC301~305	MN6631A	Input Selector (Voice Signal)
IC401, 402	SVIUPD4066BC	Input Selector (Video Signal)
IC403	SVITD62501P	Inverter
IC702, 802	AN6552F	Buffer, DC Servo
IC901	AN78M18	Regulator
IC902	AN79M18	Regulator
IC903	AN78M05	Regulator
TRANSISTORS		
Q101~108	2SK369−GR	Differential Amp.
Q201~208, 214, 215, 217, 501, 502, 507~510, 901~904	2SC1685−QNC	Inverter, Input Selector, Relay Drive
Q209~213, 216, 408, 503, 504, 751	2SA1015Y	Inverter, Input Selector, Switching
Q401~406	2SA733−P1	Buffer Amp.
Q409~411	2SC3112	Transistor
Q505, 506, 601, 602	2SK389−GR	Differential Amp.
DIODES		
D101, 102, 202~209, 219, 221, 261~268	MA162A	Switching
D201	MA1100−M	10V, Zener
D211~218	SVDMC911	Input Selector
D220	SVDMZ303BM	3V, Zener
D221	MA1051	5.1V, Zener
D251~260, 351	SVDPR5533K	Input Selector IND.
DIODES		
D401	MA1082M	8.2V, Zener
D402~404, 408	MA162A	Input Selector
D405, 406	MA1150M	15V, Zener
D407, 409~415, 501~504, 601, 602, 911, 912, 915	MA162A	Switching
D505, 506	MA27W−A	Switching
D551	SVDPR5735S	Muting IND.
D751~754	SVDPR5533K	Rec. Output
D755	SVDAY5533K−M	DC IND.
D901~904, 906~910 ⚠	SVDSR1K2	Rectifier
D913	MA1082M	8.2V, Zener
D914	MA1047A	4.7V, Zener
D916	MA1030M	3V, Zener
D917, 918	MA4047	4.7V, Zener
COILS		
L101, 102	SLQW471−1P3	Choke
L801, 802	SLQX101−2D	Choke
L901	SLQZ650MH49	Choke
TRANSFORMER		
T1 ⚠	SLT5L185	Power Source
VARIABLE RESISTORS		
VR501, 502	EVNK6AA00B52	DC Offset Adj., 500Ω(B)
VR503	EWGHCA054703	Balance
VR552	EWI6SA049101	Volume
VR701, 702	EWGHC0054C15	Treble, Super Treble, 100kΩ(C)
VR703	EWGHCY054530	Bass
VR704	EWKK5A531B53	Supper Bass, 5kΩ(B)
VR801, 802	EVNK6AA00B23	DC Offset Adj., 2kΩ(B)
RELAY		
RLY901	SSY9	Output
COMPONENT COMBINATIONS		
Z201, 202	EXBP84104K	100kΩ×4
Z203, 204	EXFP6103ZW	0.01µF×6
Z401, 402	EXBP87104K	100kΩ×7
Z901, 902	SXRFS203ZSM	0.01µF×2
SWITCHES		
S1 ⚠	ESB99399S	Power Switch
S2 ⚠	ESE3787	Voltage Selector
S101, 301	SSH2071	Phono, Terminal Selector
S251~258	SSG13	Input Selector
S302~304	SSH469	Tape Monitor
S305	RSS42A	Computer Control
S501, 502	SSH2073	Rec. Mode, Subsonic
S551	SSH1139	Muting
S701, 702	SSH1137	Operation, Supper Bass
S751~753	SSH471	Rec. Output
FUSES		
F1, 2	XBA2C03TRO	250V, T315mA
F3	XBA2C04TRO	250V, T400mA

RESISTORS & CAPACITORS

Notes:
- Please use this part number for parts orders.
- Important safety notice:
  Components identified by ⚠ mark have special characteristics important for safety. When replacing any of these components use only manufacturer's specified parts.
- The unit of resistance is OHM (Ω).
  K=1000Ω, M=1000KΩ
- The unit of capacitance is MICROFARAD (µF).
  P=10^{-6}µF

● CAPACITORS

Ref. No.	Part No.	Value
C1, 2 ⚠	ECKDKC103PF2	0.01
C105, 106	ECQM1H222JZ	0.0022
C107, 108	ECCD1H680K	68P
C109, 110	ECCD1H101K	100P
C111, 112	ECQM1H472JZ	0.0047
C115, 116	ECEA0JU332	3300
C119, 120	ECQP1183GZ	0.018
C121, 122	ECQM1H152JZ	0.0015
C123, 124	ECQP1683JZ	0.068
C125, 126 ⚠	ECEA1EN3R3S	3.3
C127, 128	ECQM1H562JZ	0.0056
C129	ECEA1EU101	100
C130	ECEA1EU4R7	4.7
C132	ECEA1CU221	220
C133	ECEA1EU101	100
C201	ECEA1CU330	33
C202, 203	ECKD1H333ZF	0.033
C204, 205	ECKD1H333ZF	0.033
C206, 207	ECKD1H333ZF	0.033
C208, 209	ECKD1H333ZF	0.033
C210	ECEA1HU2R2	2.2
C213	ECEA1CU222	2200
C214	ECKD1H333ZF	0.033
C215	ECEA1CU221	220
C217	ECKD1H333ZF	0.033
C218	ECEA1AU101	100
C302	ECEA1EU470	47
C401, 402	ECEA1AU471	470
C403, 404	ECEA1AU471	470
C405	ECEA1AU471	470
C406, 407	ECEA1CU470	47
C408, 409	ECEA1AU102	1000
C410	ECEA1AU102	1000
C412	ECKD1H333ZF	0.033
C413	ECEA0JU470	47
C414	ECEA1AU101	100
C415	ECEA1CU101	100
C416, 417	ECCD1H330KC	33P
C418	ECCD1H330KC	33P
C419, 420	ECKD1H102KB	0.001
C501, 502	ECQM1H683JZ	0.068
C503, 504	ECQM1H333JZ	0.033
C505, 506	ECKD1H681KB	608P
C507, 508	ECKD1H681KB	680P
C509, 510	ECKD1H102KB	0.001
C511, 512	ECKD1H333ZF	0.033
C513, 514	ECEA1HU010	1
C515, 516	ECKD1H221KB	220P
C601, 602	ECCD1H181K	180P
C603, 604	ECCD1H270K	27P
C701, 702 ⚠	ECEA1CN470S	47
C703, 704	ECEA1HUR47	0.47
C705, 706	ECKD1H561KB	560P
C707, 708	ECQM1H472JZ	0.0047
C709, 710	ECQM1H222JZ	0.0022
C711, 712	ECQM1H183JZ	0.018
C713, 714	ECQM1H123JZ	0.012
C715, 716	ECQM1H683JZ	0.068
C717, 718	ECEA1HU010	1
C719, 720	ECQM1H154JZ	0.15
C721, 722	ECQM1H154JZ	0.15
C723, 724	ECQM1H153JZ	0.015
C725, 726	ECQM1H153JZ	0.015
C727, 728 ⚠	ECEA1CN330S	33
C729, 730	ECEA1CU470	47
C731, 732	ECCD1H470K	47P
C801, 802	ECCD1H151K	150P
C803, 804 ⚠	ECEA1CN100S	10
C805, 806	ECQM1H222JZ	0.0022
C809	ECKD1H333ZF	0.033
C810	ECEA0JU470	47
C811	ECEA1EU4R7	4.7
C901, 902	ECEA1VU102	1000
C903, 904	ECEA1EU100	10
C906	ECEA1EU470	47
C907	ECEA1CU222	2200
C908	ECEA1AU101	100
C909	ECEA1HU3R3	3.3
C910	ECEA1CU220	22
C911	ECEA1HUR33	0.33

● RESISTORS

Ref. No.	Part No.	Value
R101, 102	ERD25FJ102	1K
R105, 106	ERD25FJ221	220
R107, 108	ERD25FJ2R2	2.2
R109, 110	ERD25TJ473	47K
R111, 112	ERD25FJ102	1K
R113, 114	ERO25CKG1001	1K
R115, 116	ERO25CKG1001	1K
R119, 120	ERO25CKG1001	1K
R121, 122	ERD25FJ391	390
R123, 124	ERO25CKF82R0	82
R125, 126	ERD25FJ3R3	3.3
R127, 128	ERD25FJ121	120
R129, 130	ERO25CKF3901	3.9K
R131, 132	ERO25CKF4702	47K
R133, 134	ERD25FJ561	560
R135, 136	ERD25TJ334	330K
R137	ERD25FJ221	220
R143	ERD25FJ221	220
R201, 202	ERD25FJ103	10K
R203, 204	ERD25FJ103	10K
R205, 206	ERD25FJ103	10K
R207, 208	ERD25FJ103	10K
R209	ERD25TJ824	820K
R210, 211	ERD25FJ103	10K
R212, 213	ERD25FJ103	10K
R214, 215	ERD25FJ103	10K
R216, 217	ERD25FJ103	10K
R218	ERD25FJ103	10K
R219, 220	ERD25TJ334	330K
R221, 222	ERD25TJ334	330K
R223, 224	ERD25TJ334	330K
R225, 226	ERD25TJ334	330K
R227, 228	ERD25TJ334	330K
R229	ERD25TJ334	330K
R230	ERD25FJ103	10K
R231	ERD25TJ104	100K
R232, 233	ERD25TJ683	68K
R234, 235	ERD25TJ683	68K
R236, 237	ERD25TJ683	68K
R238, 239	ERD25TJ683	68K
R240, 241	ERD25FJ103	10K
R242, 243	ERD25FJ103	10K
R244, 245	ERD25FJ103	10K
R246, 247	ERD25FJ103	10K
R248	ERD25FJ562	5.6K
R249	ERD25FJ103	10K
R250	ERD25TJ473	47K
R251, 252	ERD25FJ221	220
R253, 254	ERD25FJ221	220
R255, 256	ERD25FJ221	220
R257, 258	ERD25FJ221	220
R259	ERD25FJ221	220
R270	ERD25TJ103	10K
R271	ERD25FJ330	33
R272, 273	ERD25TJ104	100K
R274	ERD25FJ102	1K
R275	ERD25TJ104	100K
R276	ERD25FJ103	10K
R277, 278	ERD25FJ122	1.2K
R279	ERD25FJ561	560
R281	ERD2FCG560	56
R282	ERD2FCG121	120
R301, 302	ERD25TJ824	820K
R303, 304	ERD25TJ824	820K
R305, 306	ERD25TJ824	820K
R307, 308	ERD25TJ824	820K
R309, 310	ERD25TJ824	820K
R311, 312	ERD25TJ824	820K
R313, 314	ERD25TJ824	820K
R351	ERD25FJ221	220
R401, 402	ERD25FJ820	82
R403, 404	ERD25FJ820	82
R405	ERD25FJ820	82
R406, 407	ERD25FJ102	1K
R408, 409	ERD25FJ102	1K
R410	ERD25FJ102	1K
R411	ERD25FJ821	820
R412	ERD25FJ102	1K
R413	ERD25FJ391	390
R414	ERD25FJ221	220
R415	ER025CKF7500	750
R416	ERD25TJ104	100K
R417	ERD25FJ391	390
R418	ERD25FJ221	220
R419	ER025CKF7500	750
R420	ERD25TJ104	100K
R421	ERD25FJ391	390
R422	ERD25FJ221	220
R423	ER025CKF7500	750
R424	ERD25TJ104	100K
R428, 429	ERD25TJ823	82K
R430	ERD25FJ102	1K
R439	ERD25FJ103	10K
R440, 441	ERD25TJ104	100K
R443	ERD25FJ470	47
R444	ERD25FJ181	180
R445	ERD25FJ470	47
R446	ERD25FJ181	180
R447	ERD25FJ470	47
R448	ERD25FJ181	180
R449	ERD25TJ104	100K
R501, 502	ERD25TJ683	68K
R503, 504	ERD25TJ333	33K
R505	ERD25TJ824	820K
R507, 508	ERD25TJ124	120K
R509, 510	ERD25FJ100	10
R511, 512	ERD25TJ224	220K
R513, 514	ERD25FJ103	10K
R515, 516	ERD25TJ154	150K
R519, 520	ERD25FJ102	1K
R521, 522	ERD25TJ153	15K
R523, 524	ERD25FJ470	47
R525, 526	ERD25FJ470	47
R527, 528	ERD25TJ473	47K
R529, 530	ERD25FJ331	330
R531, 532	ERD25FJ332	3.3K
R533, 534	ERD25FJ332	3.3K
R535, 536	ERD25FJ101	100
R537, 538	ERD25FJ100	10
R539	ERD25FJ221	220
R541, 542	ERD25FJ222	2.2K
R551, 552	ERD25FJ392	3.9K
R553	ERD25FJ561	560
R555, 556	ERD25FJ472	4.7K
R603, 604	ERD25TJ104	100K
R605, 606	ERD25FJ222	2.2K
R607, 608	ERD25FJ222	2.2K
R609, 610	ERD25FJ222	2.2K
R611, 612	ERD25FJ271	270
R613, 614	ERD25TJ563	56K
R615, 616	ERD25TJ824	820K
R701, 702	ER025CKF8201	8.2K
R703, 704	ER025CKF5600	560
R705, 706	ERD25TJ824	820K
R709, 710	ERD25FJ392	3.9K
R711, 712	ERD25FJ122	1.2K
R713, 714	ERD25TJ223	22K
R715, 716	ERD25FJ332	3.3K
R717, 718	ERD25TJ333	33K
R719, 720	ERD25TJ823	82K
R721, 722	ERD25FJ103	10K
R723, 724	ERD25FJ562	5.6K
R725, 726	ERD25TJ824	820K
R727, 728	ERD25TJ183	18K
R729, 730	ERD25FJ392	3.9K
R731, 732	ERD25TJ824	820K
R733, 734	ERD25FJ103	10K
R735, 736	ERD25TJ223	22K
R737, 738	ERD25TJ824	820K
R739, 740	ERD25FJ272	2.7K
R741, 742	ERD25FJ562	5.6K
R743, 744	ERD25FJ332	3.3K
R745, 746	ERD25FJ472	4.7K
R751, 752	ERD25FJ221	220
R753	ERD25FJ103	10K
R801, 802	ERD25FJ222	2.2K
R807, 808	ERD25TJ153	15K
R809, 810	ERD25TJ824	820K
R811, 812	ERD25FJ472	4.7K
R813, 814	ERD25FJ472	4.7K
R815, 816	ERD25TJ223	22K
R817	ERD25FJ103	10K
R818, 819	ERD25TJ471	470
R820	ERD25FJ103	10K
R821, 822	ERD25FJ101	100
R823, 824	ERD25FJ560	56
R825, 826	ERD25FJ103	10K
R901	ERD25FJ682	6.8K
R904	ERD25FJ333	33K
R905	ERD25TJ564	560K
R906 ⚠	ERD25FJ821	820
R907	ERD25TJ563	56K
R908	ERD25TJ562	5.6K

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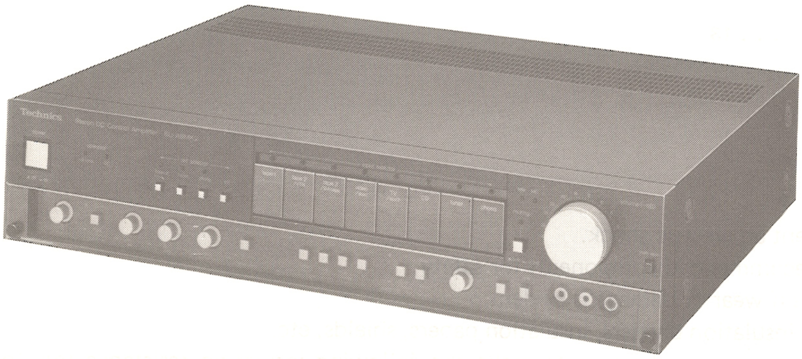
ORDER NO. HAD84062824C2

Service Manual

Stereo DC Control Amplifier

Amplifier

SU-A6MK2



Color
(K) . . . . Black Type

Color	Area
(K)	[EGA] . . . F.R. Germany

TECHNISCHE DATEN

(DIN 45 500)

■ TONTEIL

Gesamtklirrfaktor (20 Hz~20 kHz)	
PHONO MM	0,002%
	(0,5 V Ausgangsspannung bei −30 dB Leistung)
	0,002%
	(3 V Ausgangsspannung bei Höchstleistung)
PHONO MC	0,015%
	(0,5 V Ausgangsspannung bei −30 dB Leistung)
	0,003%
	(3 V Ausgangsspannung bei Höchstleistung)
TUNER, CD, VIDEO/AUX 1, TV/AUX 2, TAPE 1/EXT, TAPE 2/VTR, TAPE 3/DA TAPE/DA PROCESSOR	0,002%
	(0,5 V Ausgangsspannung bei −30 dB Leistung)
	0,002%
	(3 V Ausgangsspannung bei Höchstleistung)
Eingangsempfindlichkeit und -impedanz	
PHONO MM	2,5 mV/47 kΩ
MC	100 μV/220Ω
TUNER, CD, VIDEO/AUX 1, TV/AUX 2, TAPE 1/EXT, TAPE 2/VTR, TAPE 3/DA TAPE/DA PROCESSOR	150 mV/47 kΩ
Maximale TA-Eingangsspannung (1 kHz, eff.)	
MM	160 mV
Geräuschspannungsabstand	
PHONO MM	80 dB (90 dB nach IHF, '66)
MC	73 dB (75 dB nach IHF, '66)
TUNER, CD, VIDEO/AUX 1, TV/AUX 2, TAPE 1/EXT, TAPE 2/VTR, TAPE 3/DA TAPE/DA PROCESSOR	100 dB (nach IHF, '66: 106 dB)
Frequenzgang	
PHONO MM	RIAA-Standardkurve, 20 Hz~20 kHz, ±0,2 dB
	RIAA-Standardkurve 20 Hz~100 kHz, ±0,5 dB
TUNER, CD, VIDEO/AUX 1, TV/AUX 2, TAPE 1/EXT, TAPE 2/VTR, TAPE 3/DA TAPE/DA PROCESSOR	20 Hz~20 kHz (+0, −0,1 dB)
	0,5 Hz~200 kHz (+0, −3 dB)
Shelving-Regler	
SUPER BASS (30 Hz)	0 dB~+10 dB
BASS (50 Hz)	−5 dB~+5 dB
TREBLE (20 kHz)	−5 dB~+5 dB
SUPER TREBLE (50 kHz)	−10 dB~+10 dB
Übergangsfrequenz	
SUPER BASS (+12 dB/oct)	75 Hz, 150 Hz
BASS	500 Hz
TREBLE	2 kHz
SUPER TREBLE	8 kHz
SUBSONIC FILTER (−12 dB/oct)	20 Hz
Tondämpfung	−20 dB
Ausgangsspannung und -impedanz	
PRE OUT	Nennspg. 2 V/2Ω
	max. 8 V/2Ω
REC OUT	
TAPE 1/EXT, TAPE 2/VTR, TAPE 3/DA TAPE/DA PROCESSOR	150 mV/600Ω

■ BILDTEIL (VIDEO/AUX 1, TV/AUX 2, TAPE 2/VTR, TAPE 3/DA TAPE/DA PROCESSOR)

Ausgangssignalpegel (bei 1 Vss, 75Ω, unsymetrisch)	1±0,1 Vp-p
Maximale Eingangsspannung	1,5 Vp-p
Eingangs/Ausgangsimpedanz	75Ω Unsymetrisch

■ ALLGEMEINE DATEN

Leistungsaufnahme	17 W
Netzspannung	Wechselstrom 50 Hz/60 Hz, 110 V/120 V/220 V/240 V
Abmessungen (B×H×T)	430 × 98 × 360 mm
Gewicht	5,9 kg

Bemerkung:
Der Gesamtklirrfaktor wurde mit einem digitalen Rauschspektrometer (Anlage H.P. 3045) gemessen.

(Spezifikationen Können infolge von Verbesserungen ohne Ankündigung geändert werden.)

Technics

Matsushita Electric Trading Co., Ltd.
P.O. Box 288, Central Osaka Japan

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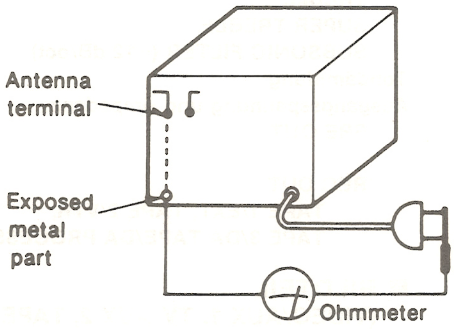
SAFETY PRECAUTION

1. Before servicing, unplug the power cord to prevent an electric shock.
2. When replacing parts, use only manufacturer's recommended components for safety.
3. Check the condition of the power cord. Replace if wear or damage is evident.
4. After servicing, be sure to restore the lead dress, insulation barriers, insulation papers, shields, etc.
5. Before returning the serviced equipment to the customer, be sure to make the following insulation resistance test to prevent the customer from being exposed to a shock hazard.

• INSULATION RESISTANCE TEST

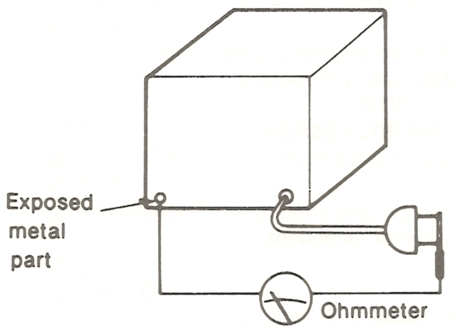
1. Unplug the power cord and short the two prongs of the plug with a jumper wire.
2. Turn on the power switch.
3. Measure the resistance value with ohmmeter between the jumpered AC plug and each exposed metal cabinet part, such as screwheads antenna, control shafts, handle brackets, etc. Equipment with antenna terminals should read between 3MΩ and 5.2MΩ to all exposed parts. (Fig. A) Equipment without antenna terminals should read approximately infinity to all exposed parts. (Fig. B)

Note: Some exposed parts may be isolated from the chassis by design. These will read infinity.



(Fig. A)

Resistance = 3 MΩ—5.2 MΩ

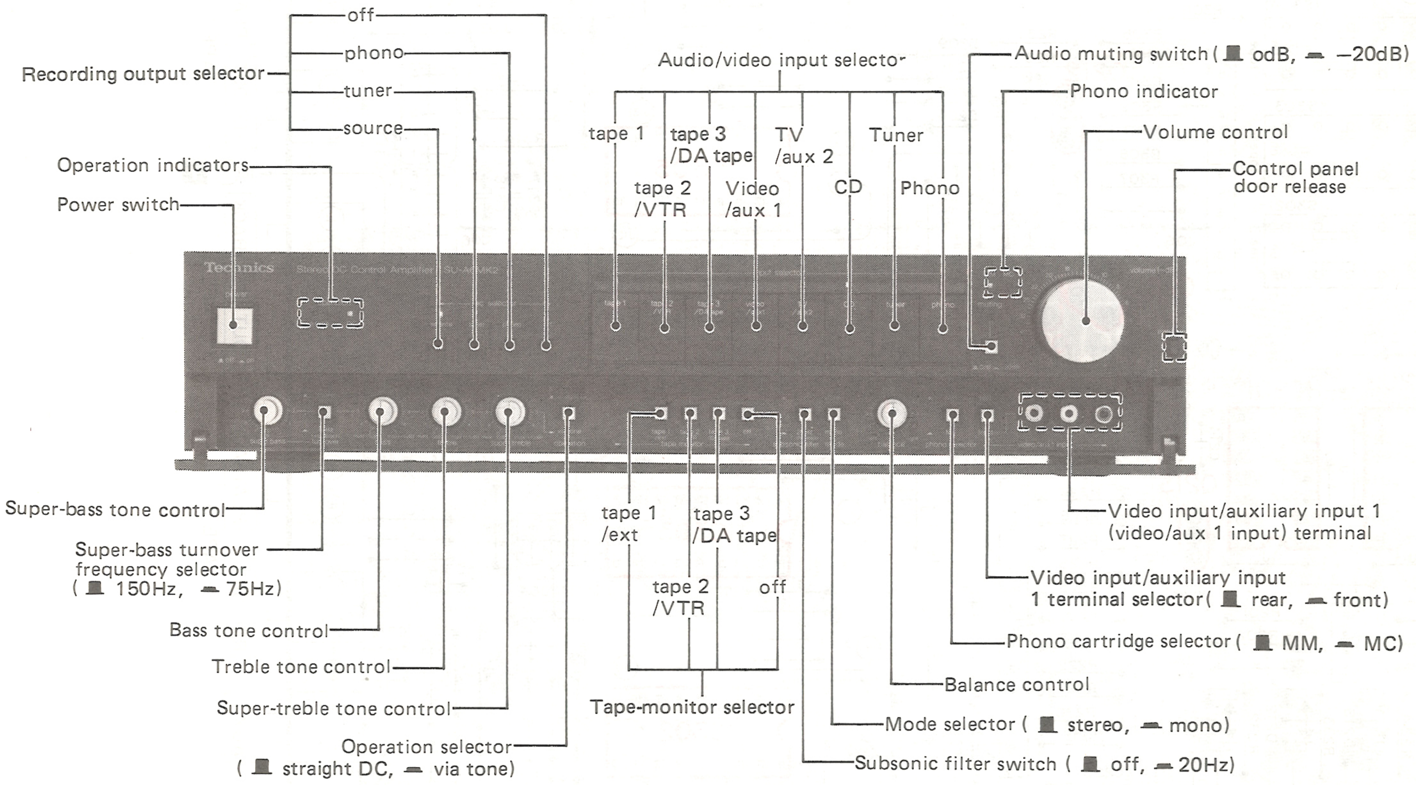


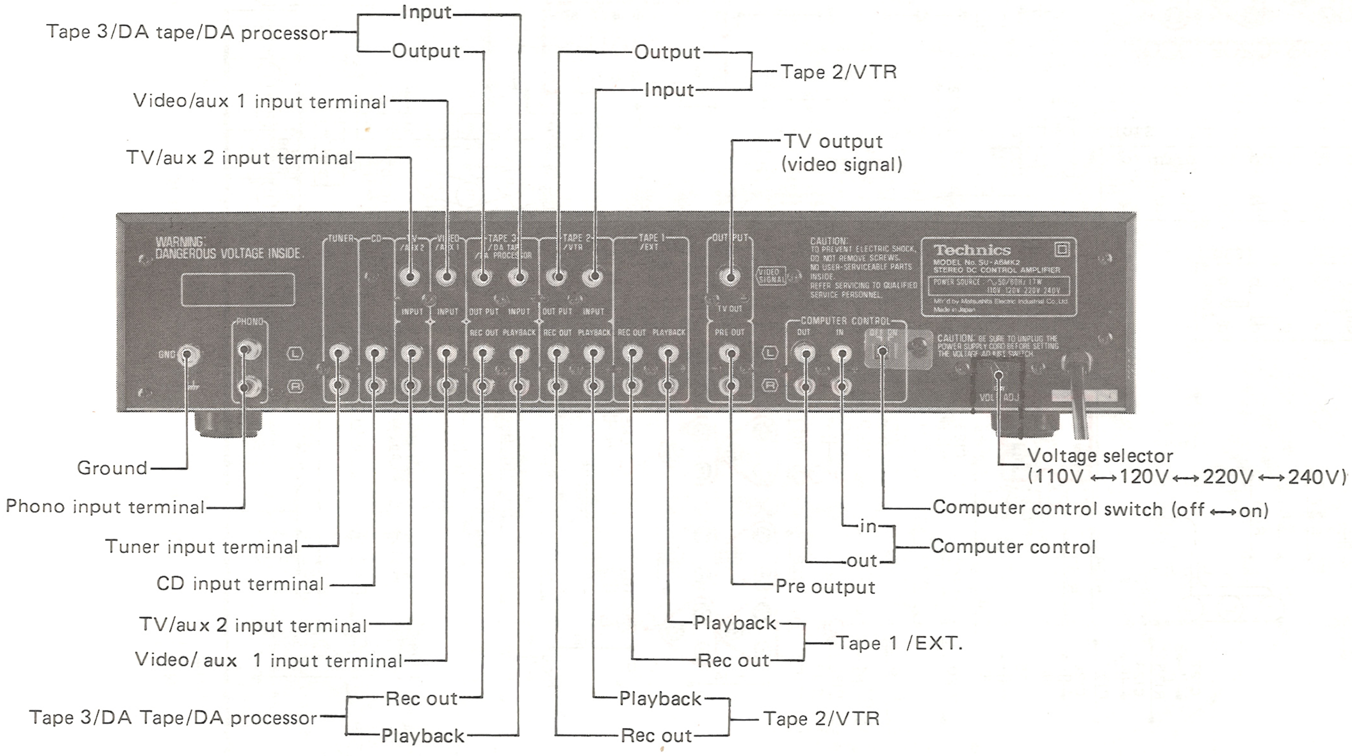
(Fig. B)

Resistance = Approx ∞

4. If the measurement is outside the specified limits, there is a possibility of a shock hazard. The equipment should be repaired and rechecked before it is returned to the customer.

LOCATION OF CONTROLS

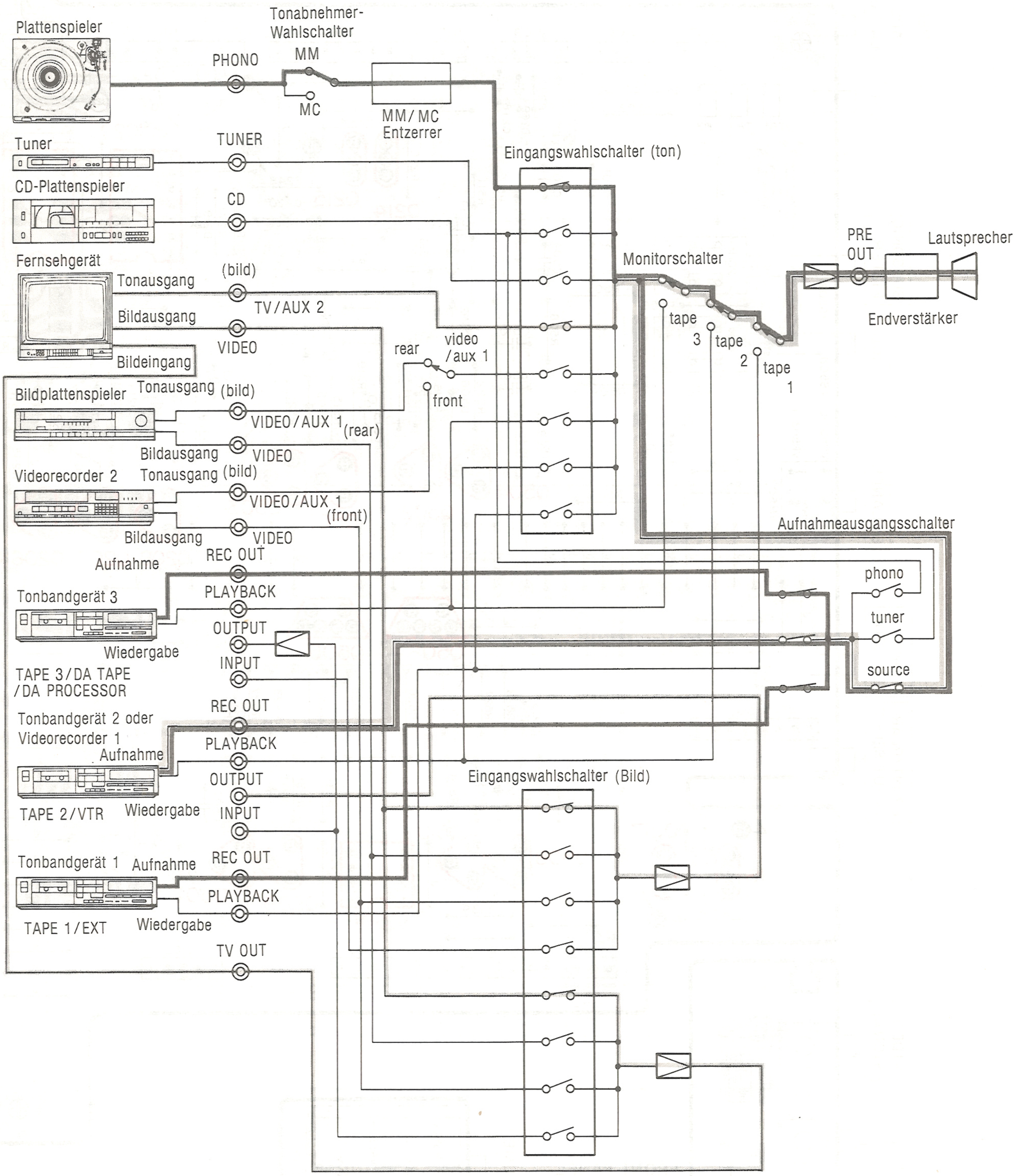

Recording output selector
off
phono
tuner
source
Operation indicators
Power switch
Audio/video input selecto-
tape 1
tape 3 /DA tape
TV /aux 2
Tuner
tape 2 /VTR
Video /aux 1
CD
Phono
Audio muting switch (▮ odB, ▬ –20dB)
Phono indicator
Volume control
Control panel door release
Super-bass tone control
Super-bass turnover frequency selector (▮ 150Hz, ▬ 75Hz)
Bass tone control
Treble tone control
Super-treble tone control
Operation selector (▮ straight DC, ▬ via tone)
tape 1 /ext
tape 3 /DA tape
tape 2 /VTR
off
Tape-monitor selector
Video input/auxiliary input 1 (video/aux 1 input) terminal
Video input/auxiliary input 1 terminal selector(▮ rear, ▬ front)
Phono cartridge selector (▮ MM, ▬ MC)
Balance control
Mode selector (▮ stereo, ▬ mono)
Subsonic filter switch (▮ off, ▬ 20Hz)


Tape 3/DA tape/DA processor
Input
Output
Video/aux 1 input terminal
TV/aux 2 input terminal
Output
Input
Tape 2/VTR
TV output (video signal)
Ground
Phono input terminal
Tuner input terminal
CD input terminal
TV/aux 2 input terminal
Video/ aux 1 input terminal
Tape 3/DA Tape/DA processor
Rec out
Playback
Voltage selector (110V ⟷ 120V ⟷ 220V ⟷ 240V)
Computer control switch (off ⟷ on)
in
out
Computer control
Pre output
Playback
Rec out
Tape 1 /EXT.
Playback
Rec out
Tape 2/VTR

- Phono input capacitance is about 150pF.

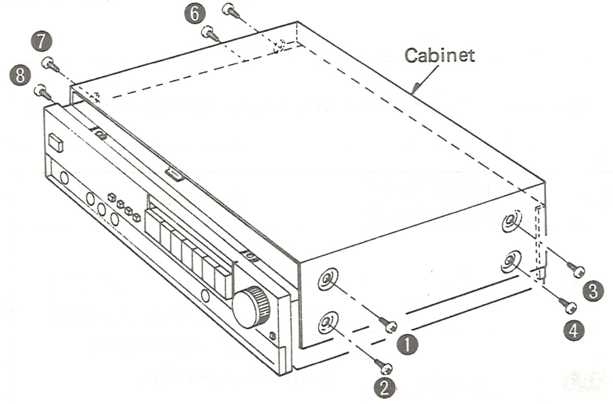
RECORDING

- **Aufnahme einer Schallplatte mit den drei Cassettendecks** ▬
- **Aufnahme von Fernsehsendungen** ░

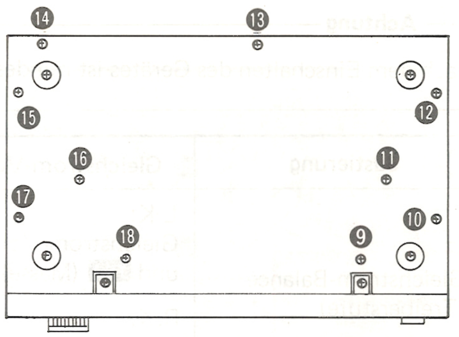

Plattenspieler
Tonabnehmer-
Wahlschalter
PHONO
MM
MC
MM/MC
Entzerrer
Tuner
TUNER
CD-Plattenspieler
CD
Eingangswahlschalter (ton)
Fernsehgerät
Tonausgang
(bild)
TV/AUX 2
Bildausgang
VIDEO
Bildeingang
Monitorschalter
PRE
OUT
Lautsprecher
Endverstärker
tape
3
tape
2
tape
1
rear
video
/aux 1
front
Bildplattenspieler
Tonausgang
(bild)
VIDEO/AUX 1
(rear)
Bildausgang
VIDEO
Videorecorder 2
Tonausgang
(bild)
VIDEO/AUX 1
(front)
Bildausgang
VIDEO
Aufnahmeausgangsschalter
Aufnahme
REC OUT
Tonbandgerät 3
PLAYBACK
phono
OUTPUT
tuner
Wiedergabe
INPUT
source
TAPE 3/DA TAPE
/DA PROCESSOR
REC OUT
Tonbandgerät 2 oder
Videorecorder 1
PLAYBACK
Aufnahme
OUTPUT
Eingangswahlschalter (Bild)
TAPE 2/VTR
Wiedergabe
INPUT
Tonbandgerät 1
Aufnahme
REC OUT
PLAYBACK
TAPE 1/EXT
Wiedergabe
TV OUT

DISASSEMBLY INSTRUCTIONS

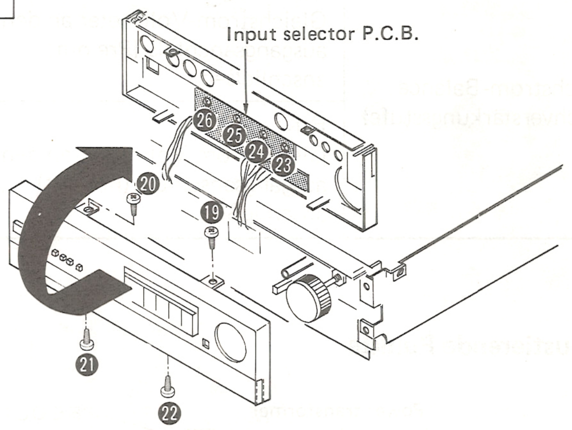
Ref. No. 1	How to remove the cabinet.
Procedure 1	• Remove the 8 setscrews.


⑤
⑥
⑦
⑧
Cabinet
③
④
①
②

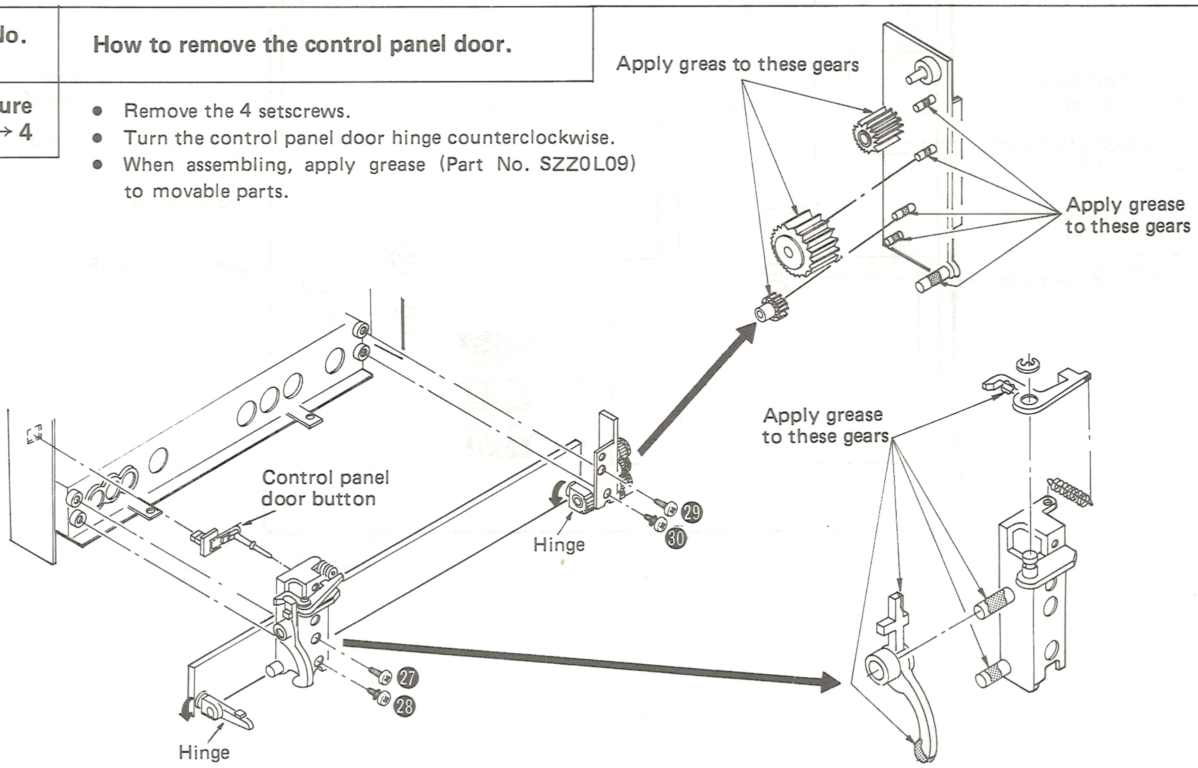
Ref. No. 2	How to remove the bottom board.
Procedure 2	• Remove the 10 setscrews.


⑭
⑬
⑫
⑮
⑯
⑪
⑰
⑩
⑱
⑨

Ref. No. 3	How to remove the front panel.
Procedure 1 → 3	• Remove the 4 setscrews (⑲ ~ ㉒). • Turn it over as shown by arrow. • Remove the 4 setscrews of input selector P.C.B.


Input selector P.C.B.
㉖
㉕
㉔
㉓
⑳
⑲
㉑
㉒

Ref. No. 4	How to remove the control panel door.
Procedure 1 → 3 → 4	• Remove the 4 setscrews. • Turn the control panel door hinge counterclockwise. • When assembling, apply grease (Part No. SZZ0L09) to movable parts.


Apply greas to these gears
Apply grease to these gears
Apply grease to these gears
Control panel door button
Hinge
㉙
㉚
㉗
㉘
Hinge

ABGLEICH-METHODE

Einstellungen am Gerät und zu verwendende Instrumente

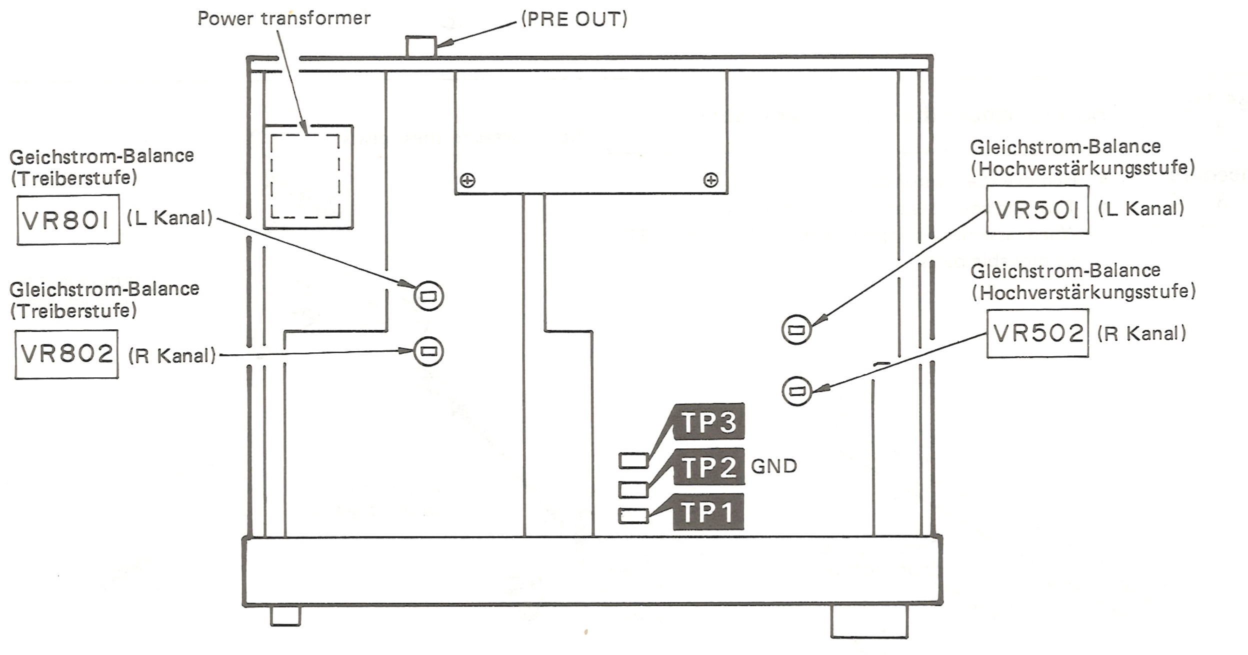
1. Eingangs–Wahlschalter.................. tuner
2. Betriebsart–Wahlschalter .... DC
3. Balanceregelung .... center
4. Lautstärkeregelung .... 0dB (MAX)
5. Gleichstrom-Voltmeter (Hochpräzisions-Typ).

Achtung

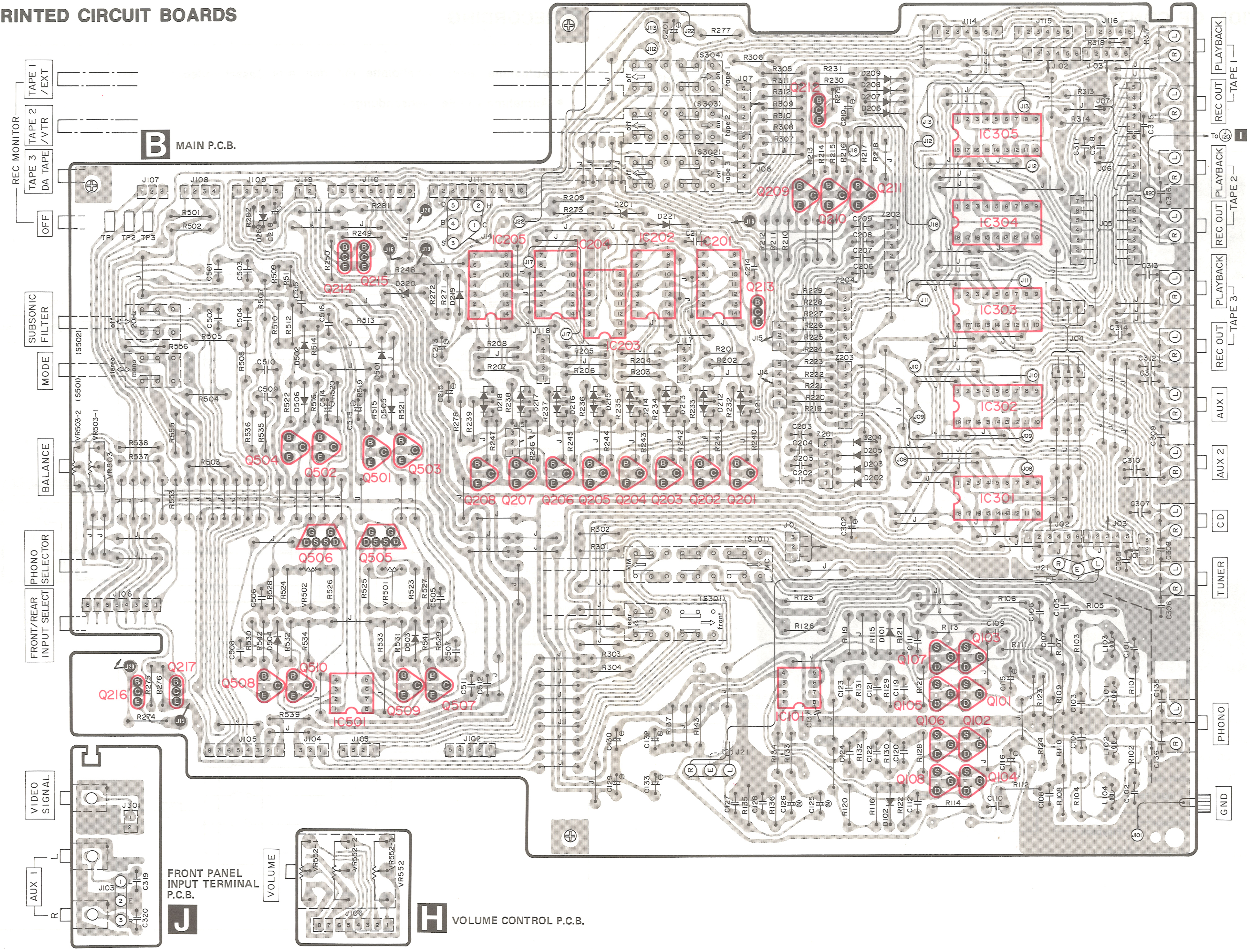
Nach dem Einschalten des Gerätes ist mindestens 2 Minuten lang zu warten, bevor die Justierung durchgeführt wird.

Justierung	Gleichstrom-Voltmeter-Anschlüsse	Zu justierender Drehwiderstand	Vorgehen
Gleichstrom-Balance (Treiberstufe)	L.K: Gleichstrom-Voltmeter zwischen TP1 und TP2 (Masse) anschließen.	VR501	VR501 (L.K.) und VR502 (R.K.) so justieren, daß das Gleichstrom-Voltmeter 0 ±0,1mV anzeigt.
	R.K: Gleichstrom-Voltmeter zwischen TP3 und TP2 (Masse) anschließen.	VR502	
Gleichstrom-Balance (Hochverstärkungsstufe)	L.K: Gleichstrom-Voltmeter an den ausgangsanchluß (Pre out) anschließen.	VR801	VR801 (L.K.) und VR802 (R.K.) so justieren, daß, das Gleichstrom-Voltmeter 0 ±0,5mV anzeigt.
	R.K: Gleichstrom-Voltmeter an den ausgangsanschluß (Pre out) anschließen.	VR802	

Zu justierende Punkte


Power transformer
(PRE OUT)
Geichstrom-Balance (Treiberstufe)
VR801 (L Kanal)
Gleichstrom-Balance (Treiberstufe)
VR802 (R Kanal)
Gleichstrom-Balance (Hochverstärkungsstufe)
VR501 (L Kanal)
Gleichstrom-Balance (Hochverstärkungsstufe)
VR502 (R Kanal)
TP3
TP2 GND
TP1

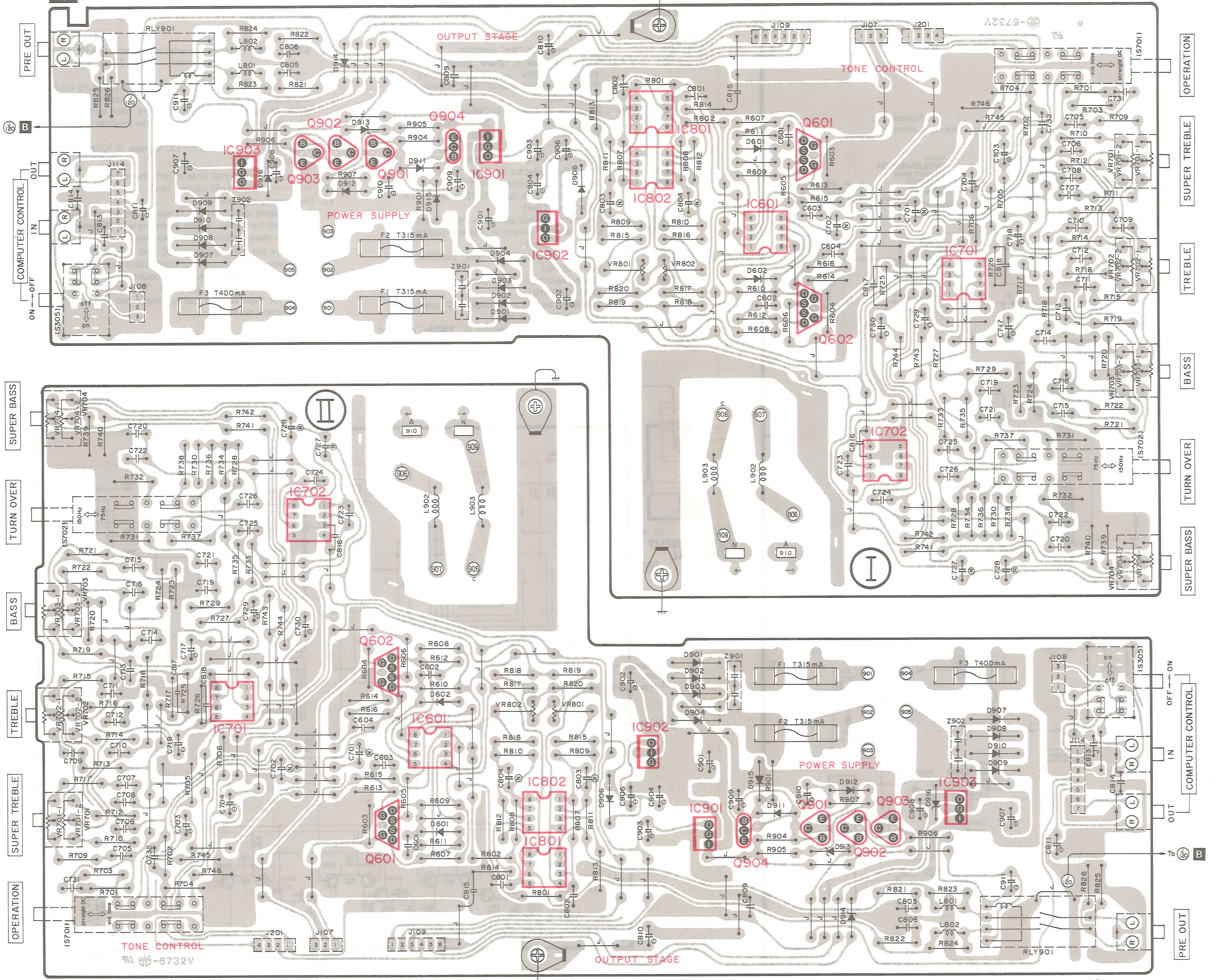
■ PRINTED CIRCUIT BOARDS



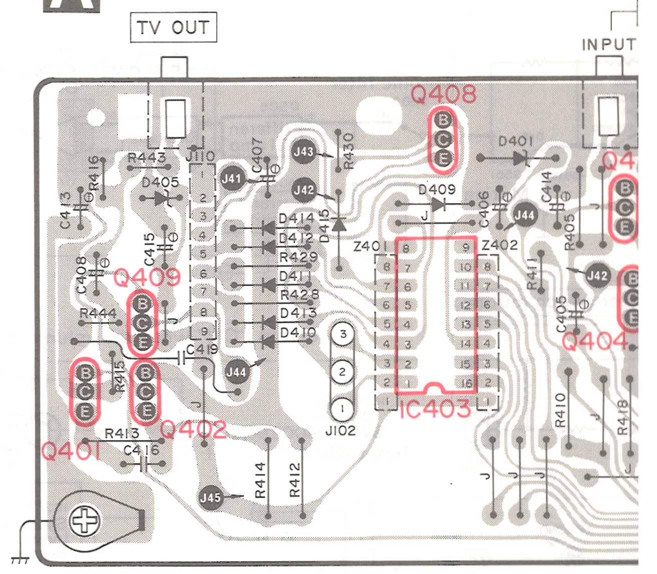
B MAIN P.C.B.
J FRONT PANEL INPUT TERMINAL P.C.B.
H VOLUME CONTROL P.C.B.
REC MONITOR
TAPE 1 /EXT
TAPE 2 /VTR
TAPE 3 DA TAPE
OFF
SUBSONIC FILTER
MODE
BALANCE
PHONO SELECTOR
FRONT/REAR INPUT SELECT
VIDEO SIGNAL
AUX 1
L
R
VOLUME
PLAYBACK
REC OUT
TAPE 1
TAPE 2
TAPE 3
AUX 1
AUX 2
CD
TUNER
PHONO
GND
To I
IC301
IC302
IC303
IC304
IC305
IC201
IC202
IC203
IC204
IC205
IC101
IC501
Q101
Q102
Q103
Q104
Q105
Q106
Q107
Q108
Q201
Q202
Q203
Q204
Q205
Q206
Q207
Q208
Q209
Q210
Q211
Q212
Q213
Q214
Q215
Q216
Q217
Q501
Q502
Q503
Q504
Q505
Q506
Q507
Q508
Q509
Q510

(This P.C.B. is available in two types Ⓘ and Ⓘⓘ for the convenience of manufacture. Ⓘ or Ⓘⓘ is printed on the P.C.B. So, check the type of P.C.B. before referring to the diagram shown here. The circuits of types Ⓘ and Ⓘⓘ are not different from each other.)

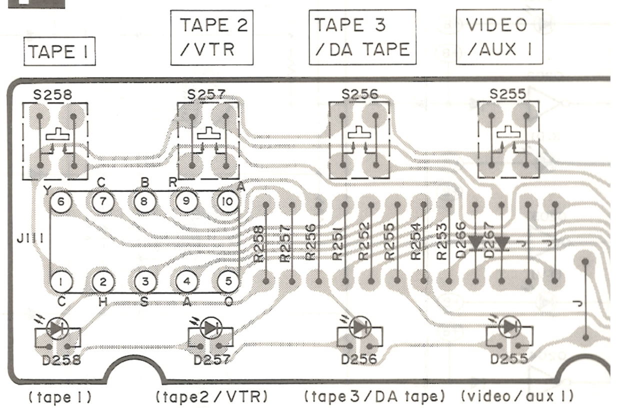
I OUTPUT AMP/DC SERVO/POWER SUPPLY P.C.B.


PRE OUT
COMPUTER CONTROL
OUT
IN
ON — OFF
To ⑳ B
RLY901
OUTPUT STAGE
TONE CONTROL
POWER SUPPLY
F1 T315mA
F2 T315mA
F3 T400mA
IC801
IC802
IC601
IC701
IC702
IC901
IC902
IC903
Q601
Q602
Q901
Q902
Q903
Q904
J107
J108
J109
J114
J201
(S305)
(S701)
(S702)
OPERATION
SUPER TREBLE
TREBLE
BASS
TURN OVER
SUPER BASS
L902
L903
I
II
-6732V

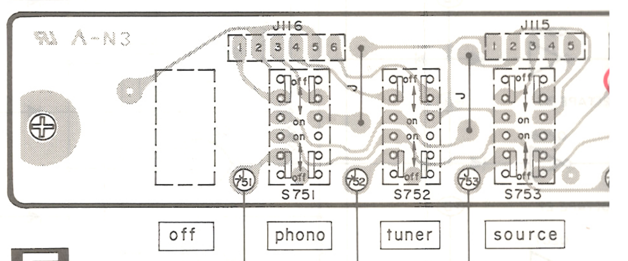
A VIDEO SIGNAL INPUT SELECTOR P.C.B.


TV OUT
INPUT
Q401
Q402
Q404
Q408
Q409
IC403
J102
J110
D401
D405
D409
Z401
Z402

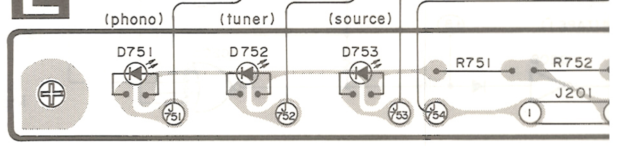
F INPUT SELECTOR SWITCH/IND. P.C.B.


TAPE 1
TAPE 2 /VTR
TAPE 3 /DA TAPE
VIDEO /AUX 1
S258
S257
S256
S255
J111
D258
D257
D256
D255
(tape 1)
(tape2/VTR)
(tape3/DA tape)
(video/aux 1)

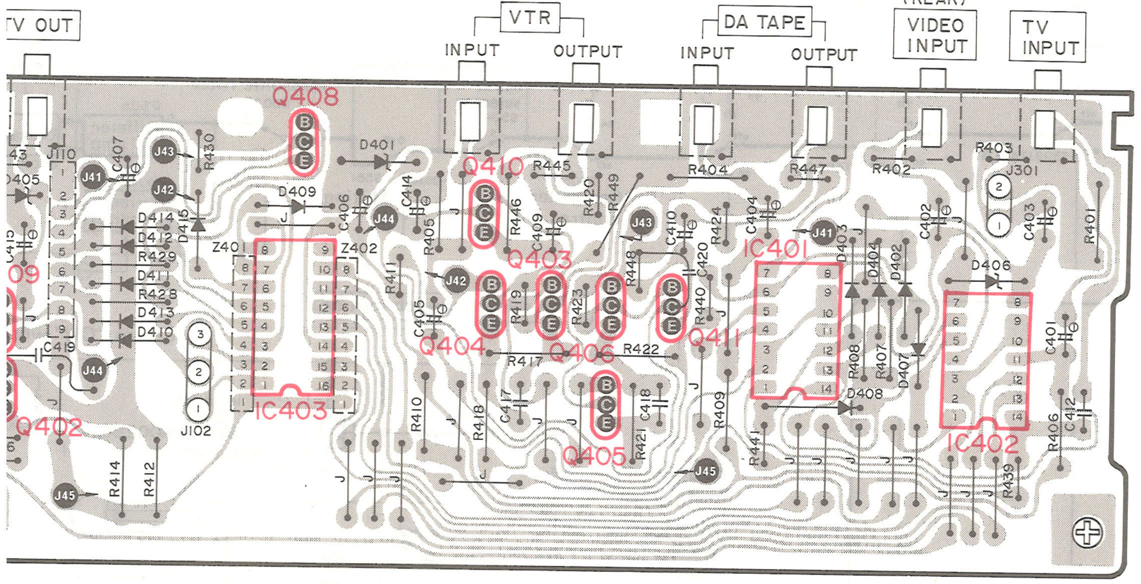
D RECORDING OUTPUT SELECTOR SWITCH P.C.B.


A-N3
J116
J115
S751
S752
S753
off
phono
tuner
source

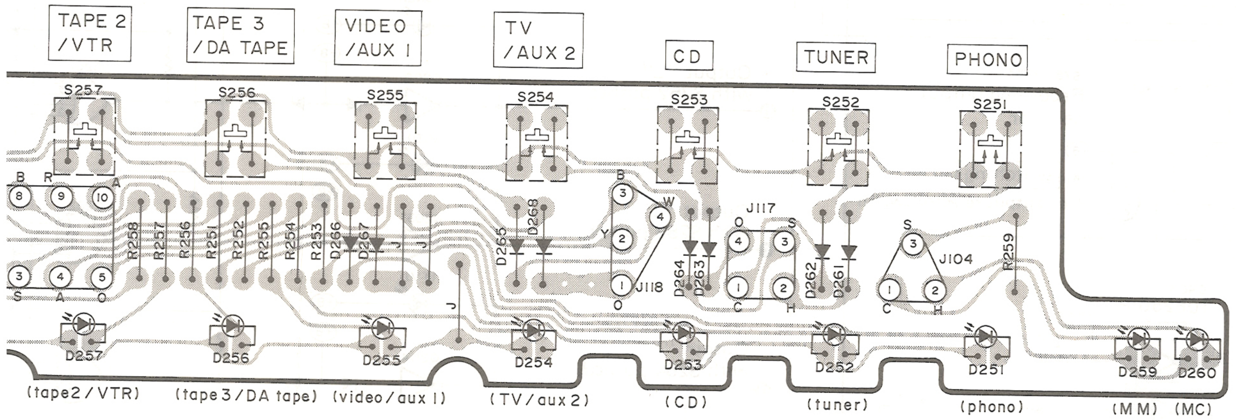
E


(phono)
(tuner)
(source)
D751
D752
D753
R751
R752
J201

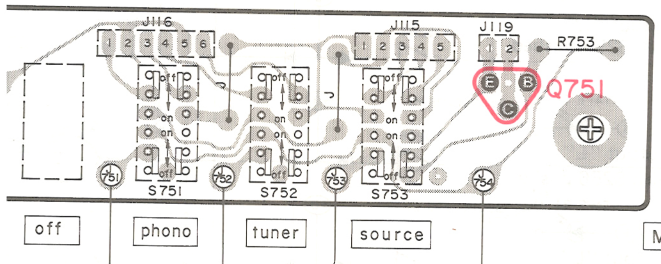
DEO SIGNAL INPUT SELECTOR P.C.B.


V OUT
VTR
INPUT
OUTPUT
DA TAPE
INPUT
OUTPUT
(REAR)
VIDEO
INPUT
TV
INPUT
Q408
Q410
Q409
Q403
Q404
Q406
Q411
Q405
Q402
IC401
IC402
IC403
D401
D409
D406
D408
R404
R447
R402
R403
J301
J102
J41
J42
J43
J44
J45
Z401
Z402

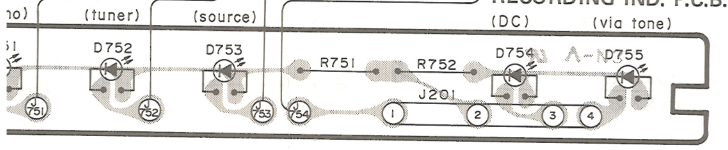
T SELECTOR SWITCH/IND. P.C.B.


TAPE 2
/VTR
TAPE 3
/DA TAPE
VIDEO
/AUX 1
TV
/AUX 2
CD
TUNER
PHONO
S257
S256
S255
S254
S253
S252
S251
J117
J118
J104
D257
D256
D255
D254
D253
D252
D251
D259
D260
(tape2 / VTR)
(tape3 / DA tape)
(video / aux 1)
(TV / aux 2)
(CD)
(tuner)
(phono)
(MM)
(MC)

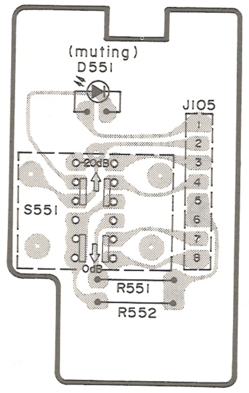
RDING OUTPUT SELECTOR SWITCH P.C.B.


J116
J115
J119
R753
Q751
S751
S752
S753
off
phono
tuner
source

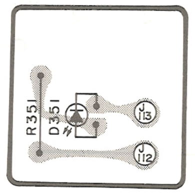
RECORDING IND. P.C.B.


MUTING
(DC)
(via tone)
ho)
(tuner)
(source)
D752
D753
R751
R752
D754
D755
J201

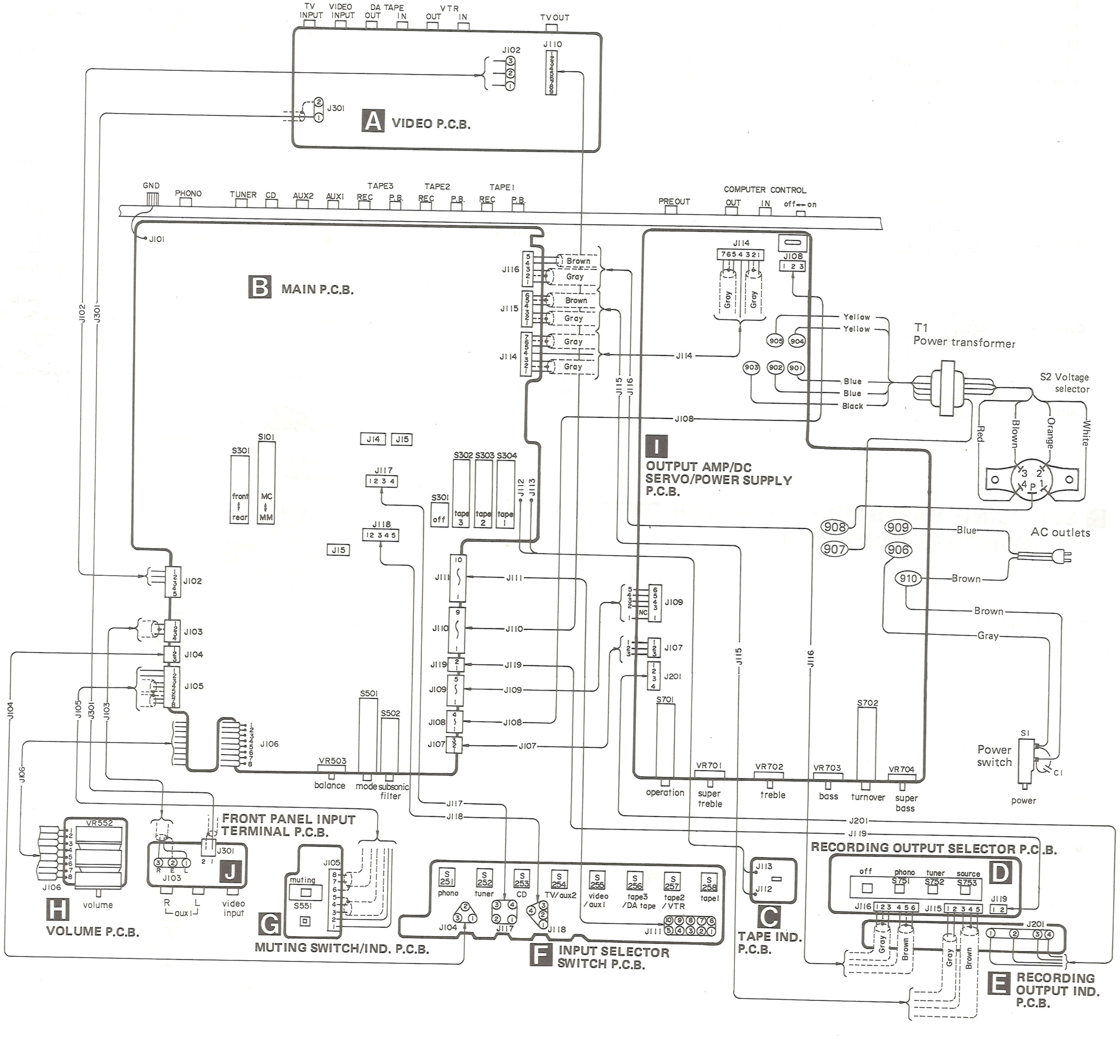
G MUTING/IND. P.C.B.


(muting)
D551
J105
S551
R551
R552

TAPE MONITOR IND. P.C.B. C

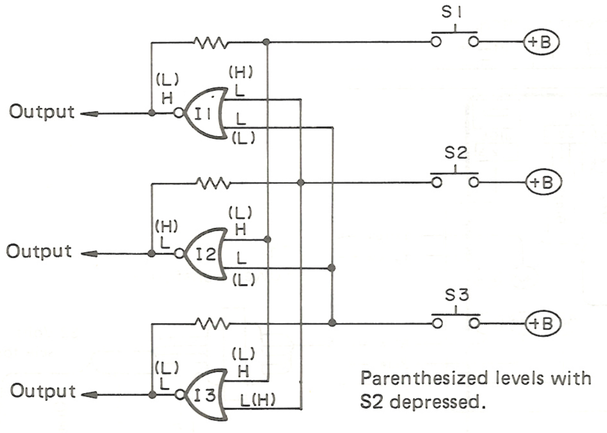

R351
D351
J13
J12

■ WIRING CONNECTION DIAGRAM (Top View)


TV INPUT
VIDEO INPUT
DA TAPE OUT
IN
VTR OUT
IN
TV OUT
J102
J110
J301
A VIDEO P.C.B.
GND
PHONO
TUNER
CD
AUX2
AUX1
TAPE3 REC
P.B.
TAPE2 REC
P.B.
TAPE1 REC
P.B.
PRE OUT
COMPUTER CONTROL
OUT
IN
off ← on
J101
B MAIN P.C.B.
J116
J115
J114
J108
Brown
Gray
Yellow
Yellow
Blue
Blue
Black
T1
Power transformer
S2 Voltage selector
Red
Brown
Orange
White
I OUTPUT AMP/DC SERVO/POWER SUPPLY P.C.B.
AC outlets
Power switch
S1
C1
power
S301
front
rear
S101
MC
MM
J14
J15
J117
J118
S302
S303
S304
off
tape 3
tape 2
tape 1
J111
J110
J119
J109
J107
J201
J102
J103
J104
J105
J106
S501
S502
VR503
balance
mode
subsonic filter
S701
VR701
VR702
VR703
VR704
S702
operation
super treble
treble
bass
turnover
super bass
H VOLUME P.C.B.
VR552
volume
FRONT PANEL INPUT TERMINAL P.C.B.
J
R
L
aux 1
video input
G MUTING SWITCH/IND. P.C.B.
muting
S551
F INPUT SELECTOR SWITCH P.C.B.
S251 phono
S252 tuner
S253 CD
S254 TV/aux2
S255 video /aux1
S256 tape3 /DA tape
S257 tape2 /VTR
S258 tape1
C TAPE IND. P.C.B.
J113
J112
D RECORDING OUTPUT SELECTOR P.C.B.
off
phono S751
tuner S752
source S753
E RECORDING OUTPUT IND. P.C.B.
908
909
907
906
910
901
902
903
904
905

BASIC OPERATION OF INPUT SELECTOR CONTROL CIRCUIT

The input selector control circuit is a flip-flop circuit using NOR gate. The output of NOR gate goes "L" when even one of the input terminals is at "H". For example, with tact switch S1 depressed as shown below, the level of signal applied to input terminals of and I3 is "H", and the output goes "L". The outputs of I2 and I3 are applied to input terminals of I1, causing only the level of I1 to go "H". With S2 depressed, "H" is applied to input terminals of I1 and I3, causing the output of I1 to change from "H" to "L". The output is then applied to I2 and I3, changing the output of I2 to "H" and that of I3 to "L". The circuit of this unit is of 8-stage configuration as shown in the block diagram, and operates as explained above.


S1
S2
S3
+B
Output
(L)
H
(H)
L
I1
I2
I3
L(H)

Parenthesized levels with S2 depressed.

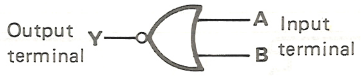

Output terminal
Y
A
B
Input terminal

Table of logic

Output	Input	
Y	A	B
H	L	L
L	H	L
L	L	H
L	H	H

SERVICING PARTS FOR EQUALIZER DIFFERENTIAL TRANSISTORS (Q101～Q108)

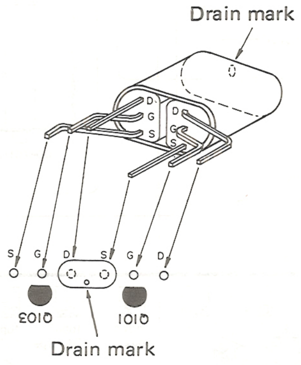
The equalizer differential transistors (Q101 ～ Q108) used in this unit are 2SK369. However, when replacing the parts, be sure to use servicing repair parts 2SK146.

● Pairs replaced

When one of the parts in pair shown below is replaced, remove the other one as well and insert 2SK146 instead.

Combination

1	2	3	4
Q101 ↕ Q103	Q102 ↕ Q104	Q105 ↕ Q107	Q106 ↕ Q108

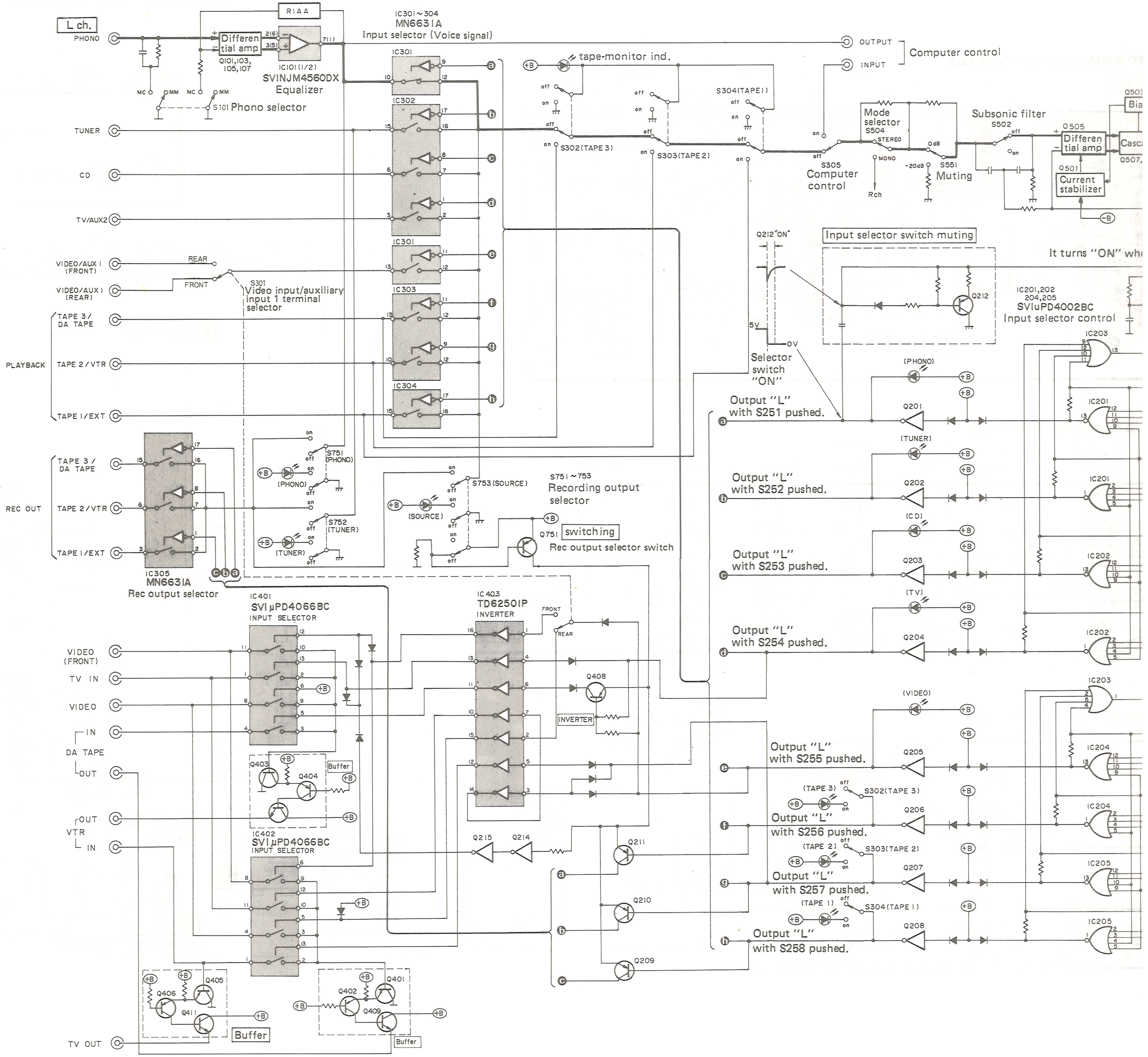

Drain mark
D
G
S
S G D S G D
2010
1010
Drain mark

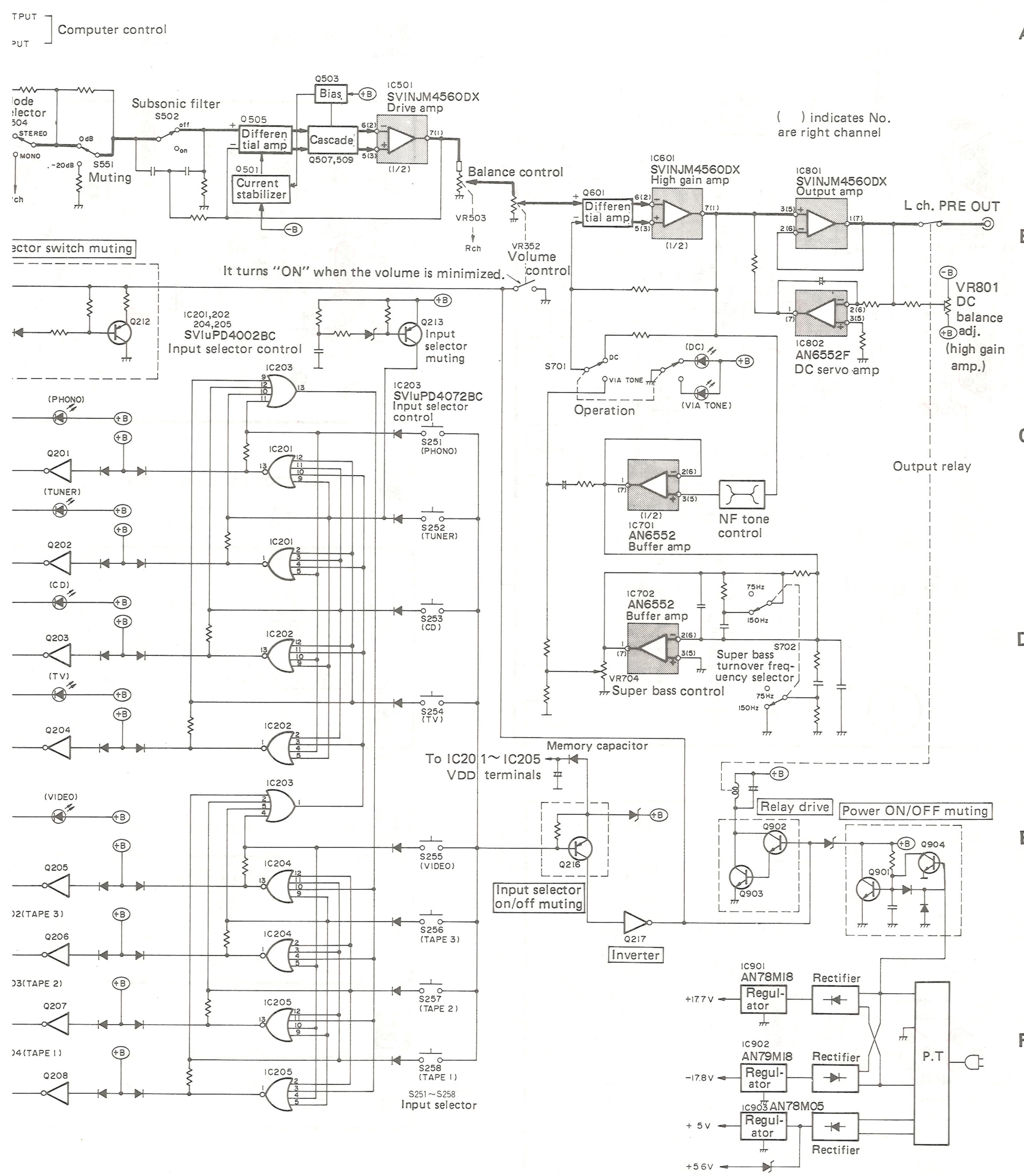
● How to fit

① 2SK146 includes 2 transistors. So, bend the legs as shown and put 2 or 3mm tube on each gate leg to prevent shorting between the leads.

② 2SK146 must be correctly inserted according to D, G and S indicated on the surface.

BLOCK DIAGRAM


L ch.
PHONO
RIAA
Differential amp
Q101,103,105,107
IC101(1/2)
SVINJM4560DX
Equalizer
MC MM MC MM
S101 Phono selector
IC301～304
MN6631A
Input selector (Voice signal)
IC301
IC302
IC303
IC304
OUTPUT
INPUT
Computer control
tape-monitor ind.
S302(TAPE 3)
S303(TAPE 2)
S304(TAPE 1)
off
on
Mode selector
S504
STEREO
MONO
Rch
S305
Computer control
Subsonic filter
S502
0dB
-20dB
S551
Muting
Q505
Differential amp
Q501
Current stabilizer
Q503
Q507
TUNER
CD
TV/AUX2
VIDEO/AUX1 (FRONT)
VIDEO/AUX1 (REAR)
REAR
FRONT
S301
Video input/auxiliary input 1 terminal selector
PLAYBACK
TAPE 3/DA TAPE
TAPE 2/VTR
TAPE 1/EXT
REC OUT
IC305
MN6631A
Rec output selector
S751
(PHONO)
S752
(TUNER)
S753(SOURCE)
(SOURCE)
S751～753
Recording output selector
Q751
switching
Rec output selector switch
Q212 "ON"
5V
0V
Selector switch "ON"
Input selector switch muting
Q212
It turns "ON" wh
IC201,202
204,205
SVIuPD4002BC
Input selector control
IC201
IC202
IC203
IC204
IC205
(PHONO)
(TUNER)
(CD)
(TV)
(VIDEO)
Q201
Q202
Q203
Q204
Q205
Q206
Q207
Q208
Output "L" with S251 pushed.
Output "L" with S252 pushed.
Output "L" with S253 pushed.
Output "L" with S254 pushed.
Output "L" with S255 pushed.
Output "L" with S256 pushed.
Output "L" with S257 pushed.
Output "L" with S258 pushed.
(TAPE 3)
(TAPE 2)
(TAPE 1)
IC401
SVI µPD4066BC
INPUT SELECTOR
IC402
SVI µPD4066BC
INPUT SELECTOR
IC403
TD62501P
INVERTER
Q408
INVERTER
VIDEO (FRONT)
TV IN
VIDEO
DA TAPE
IN
OUT
VTR
TV OUT
Q403
Q404
Buffer
Q215
Q214
Q211
Q210
Q209
Q405
Q406
Q411
Q401
Q402
Q409
+B
a
b
c
d
e
f
g
h


Computer control
Subsonic filter
S502
Mode selector
S504
STEREO
MONO
0dB
-20dB
S551
Muting
Q503
Bias
IC501
SVINJM4560DX
Drive amp
Q505
Differential amp
Cascode
Q507,509
Q501
Current stabilizer
( ) indicates No. are right channel
Balance control
VR503
Rch
VR352
Volume control
IC601
SVINJM4560DX
High gain amp
Q601
Differential amp
IC801
SVINJM4560DX
Output amp
L ch. PRE OUT
Selector switch muting
It turns "ON" when the volume is minimized.
VR801
DC balance adj.
(high gain amp.)
IC802
AN6552F
DC servo amp
Q212
IC201,202
204,205
SVIuPD4002BC
Input selector control
Q213
Input selector muting
IC203
IC203
SVIuPD4072BC
Input selector control
S701
DC
VIA TONE
Operation
(VIA TONE)
(PHONO)
Q201
IC201
S251
(PHONO)
(TUNER)
Q202
S252
(TUNER)
(CD)
Q203
IC202
S253
(CD)
(TV)
Q204
S254
(TV)
IC701
AN6552
Buffer amp
NF tone control
Output relay
IC702
AN6552
Buffer amp
75Hz
150Hz
S702
Super bass turnover frequency selector
VR704
Super bass control
Memory capacitor
To IC201~IC205 VDD terminals
(VIDEO)
Q205
S255
(VIDEO)
Q216
Input selector on/off muting
Relay drive
Power ON/OFF muting
Q902
Q903
Q901
Q904
(TAPE 3)
Q206
IC204
S256
(TAPE 3)
Q217
Inverter
(TAPE 2)
Q207
IC205
S257
(TAPE 2)
(TAPE 1)
Q208
S258
(TAPE 1)
S251~S258
Input selector
IC901
AN78M18
Regulator
Rectifier
+17.7V
IC902
AN79M18
Regulator
Rectifier
-17.8V
IC903 AN78M05
Regulator
Rectifier
+5V
+5.6V
P.T

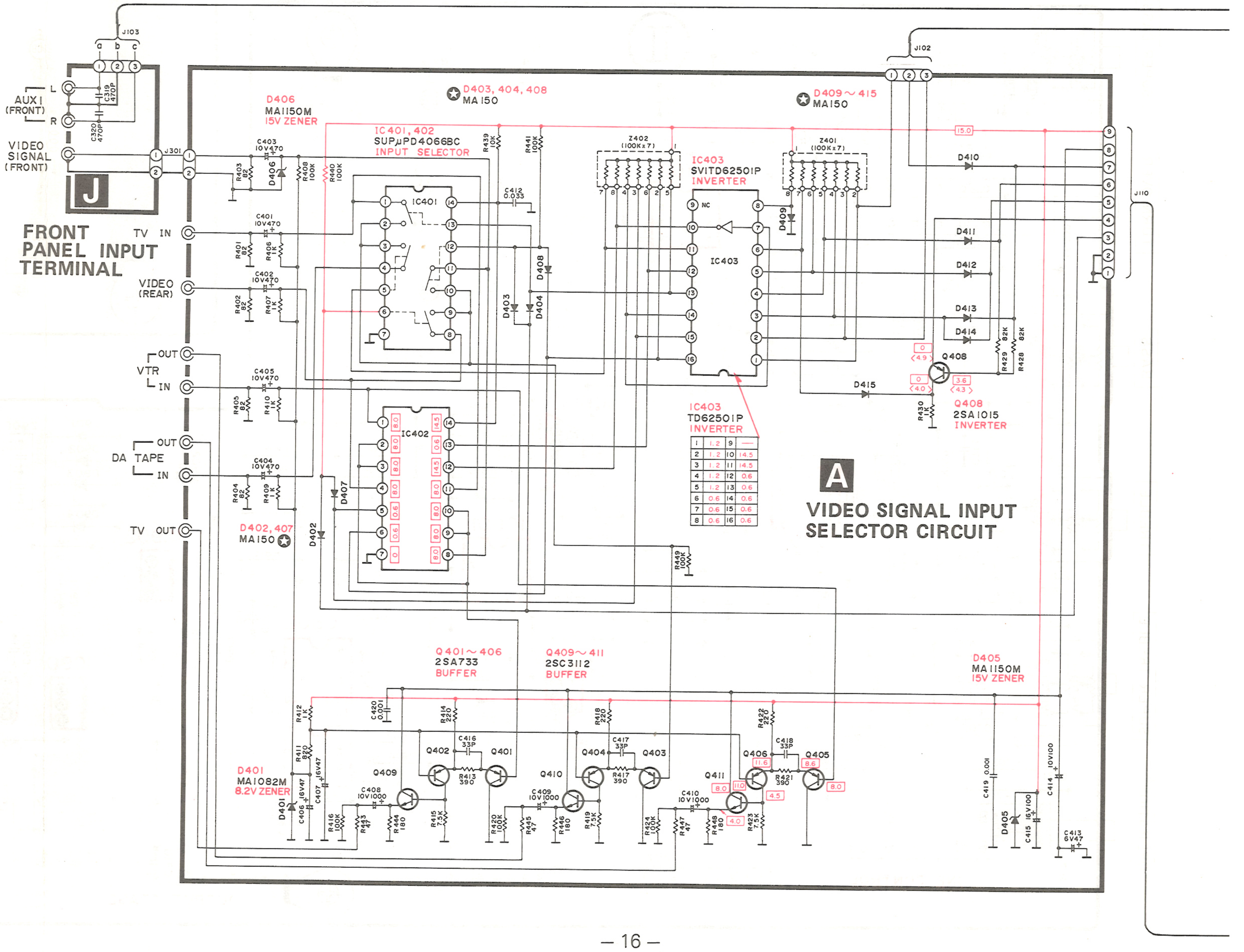
SCHEMATIC DIAGRAM

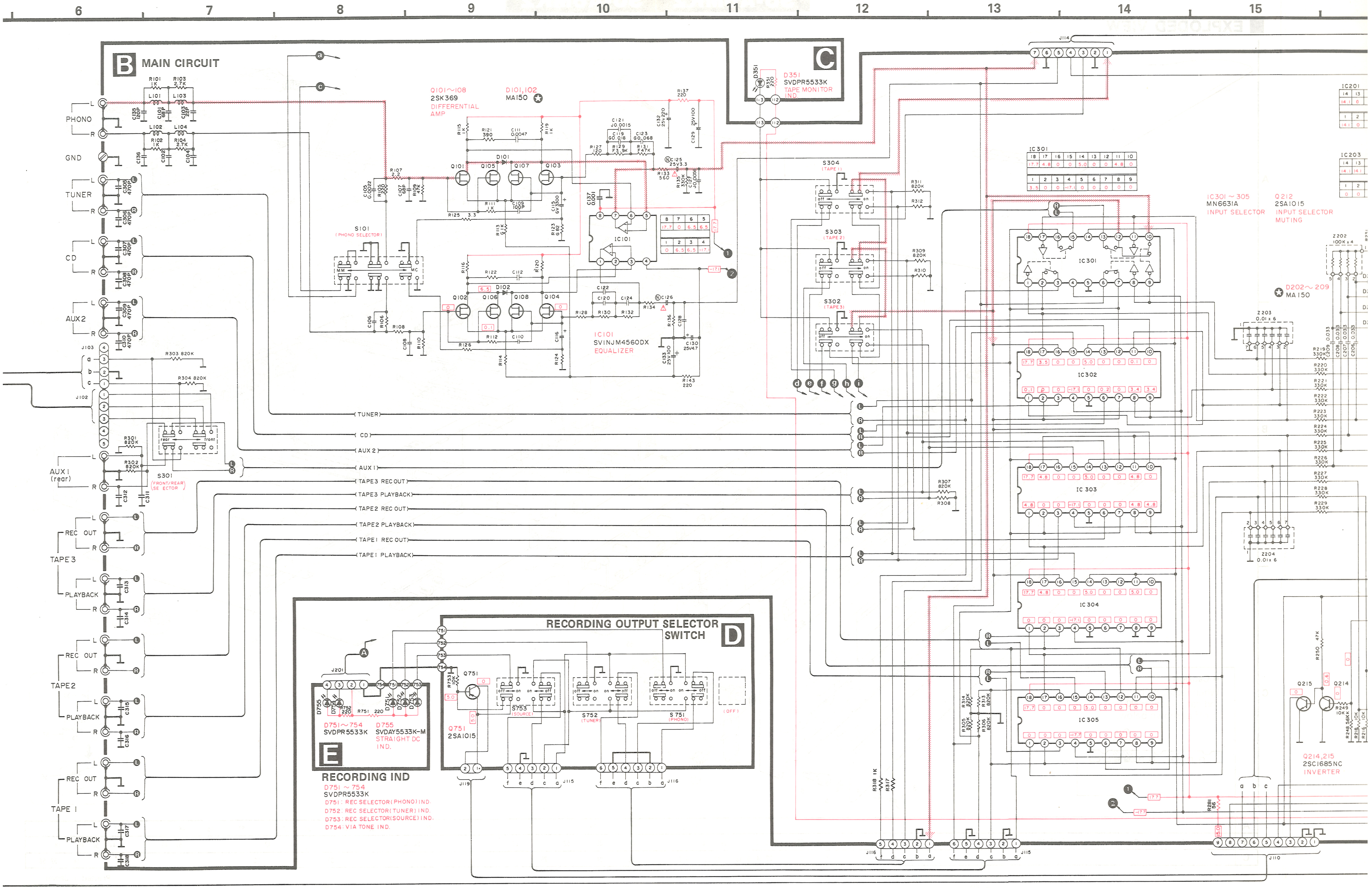
(This schematic diagram may be modified at any time with the development of new technology.)

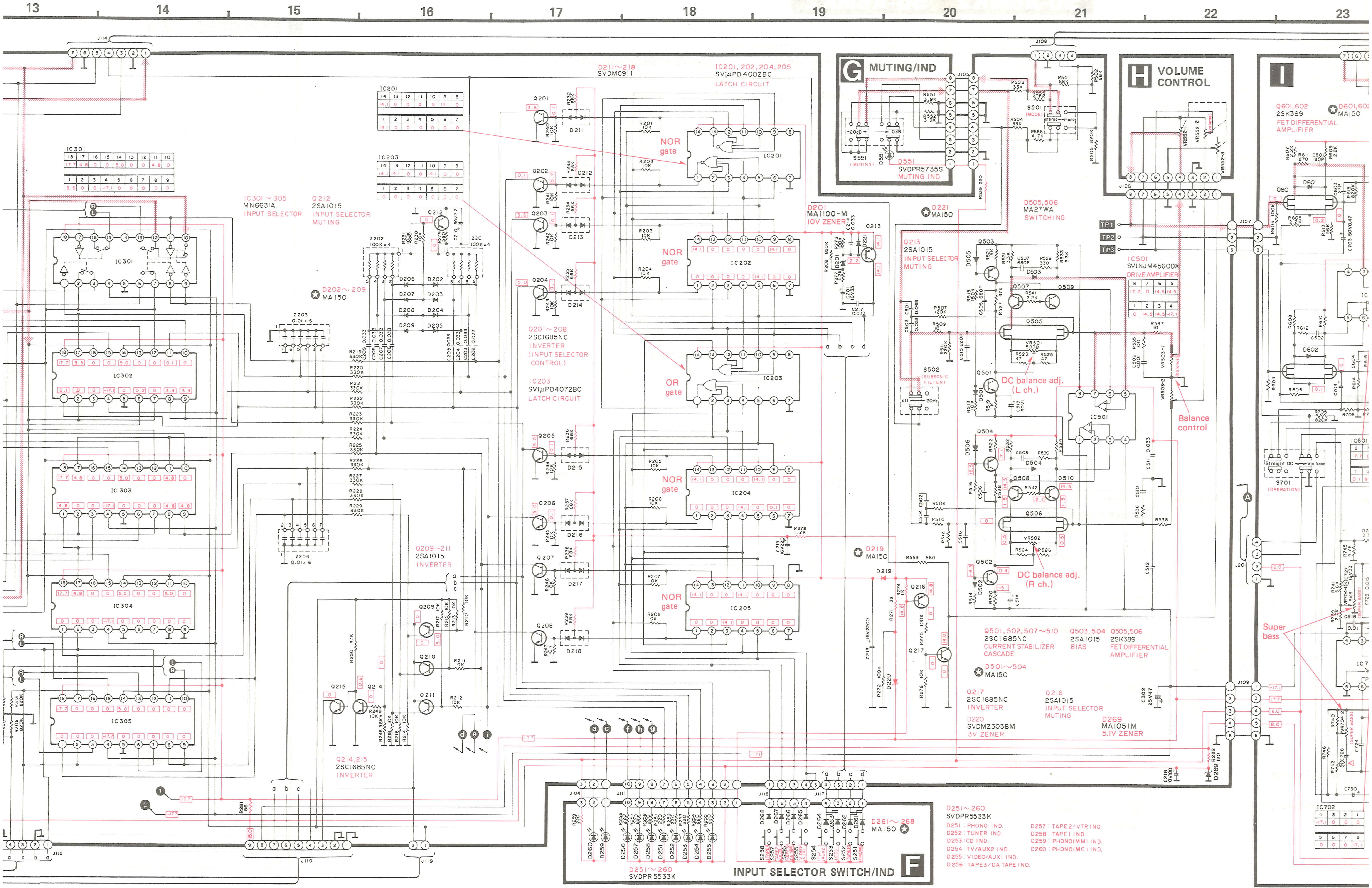
Notes:

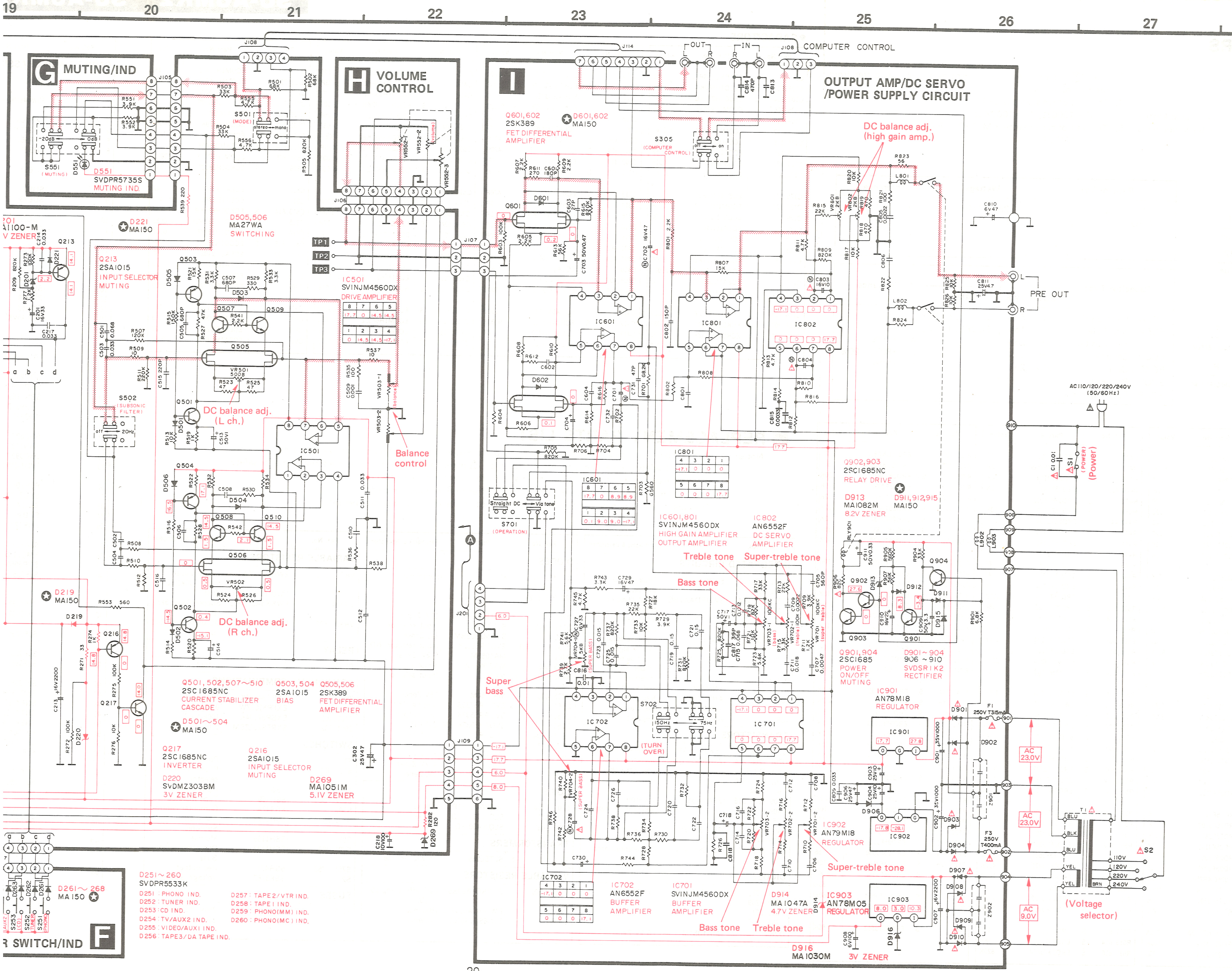
1. **S1** : Power switch in "**on**" position
2. **S2** : Voltage selector in **"240V"** position.
(110V ↔ 220V ↔ 120V ↔ 240V)
3. **S101** : Phono selector switch in "**MM**"-position
(MM ↔ MC)
4. **S251 ~ 258** : Input selector switch in "**phono**" position
S251: phono S255: video/aux 1
S252: tuner S256: tape 3/DA tape
S253: CD S257: tape 2/VTR
S254: TV/aux 2 S258: tape 1
5. **S301** : Front/Rear selector in "**Rear**" position
6. **S302 ~ 304** : Tape monitor switch in "**off**" position
S302: tape 3/DA tape S303: tape 2/VTR
S304: tape 1/ext
7. **S305** : Computer control switch in "**off**" position
8. **S501** : Mode selector switch in "**stereo**" position
(stereo ↔ mono)
9. **S502** : Subsonic filter switch in "**off**" position
(off ↔ 20Hz)
10. **S551** : Muting switch in "**0dB**" position
(0dB ↔ –20dB)
11. **S701** : Operation switch in "**straight DC**" position
(straight DC ↔ via tone)
12. **S702** : Turnover frequency switch in "**150Hz**" position
(75Hz ↔ 150Hz)
13. **S751 ~ 753** : Recording selector switch in "**off**" position
S751: phono S753: source
S752: tuner
14. ▭ Indicated voltage values are the standard values for the DC electronic circuit tester (high impedance) with the chassis taken as standard. Therefore, there may exist some errors in the voltage values, depending on the internal impedance of the DC circuit tester.
Fignres in < > stand for DC voltage in Video, TV signal reception mode.
15. ⇨ Phono signal lines of left channel.
16. —— Positive (+B) voltage lines.
17. Important safety notice:
Components identified by ⚠ mark have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.

- The part No. of transistors, IC and diodes mentioned in the schematic diagram stand for production part No. Regarding the part No. with ✪ mark, the production part No. are different from the replacement part No. Therefore, when placing an order for replacement parts, please use the part No. in the replacement parts list.


J103
AUX I (FRONT)
L
R
VIDEO SIGNAL (FRONT)
J
FRONT PANEL INPUT TERMINAL
TV IN
VIDEO (REAR)
VTR OUT
VTR IN
DA TAPE OUT
DA TAPE IN
TV OUT
D406
MA1150M
15V ZENER
D403, 404, 408
MA150
IC401, 402
SUPμPD4066BC
INPUT SELECTOR
IC401
IC402
D402, 407
MA150
Z402
Z401
IC403
SVITD62501P
INVERTER
D409 ~ 415
MA150
J102
IC403
TD62501P
INVERTER
Q408
2SA1015
INVERTER
A
VIDEO SIGNAL INPUT SELECTOR CIRCUIT
Q401 ~ 406
2SA733
BUFFER
Q409 ~ 411
2SC3112
BUFFER
D405
MA1150M
15V ZENER
D401
MA1082M
8.2V ZENER

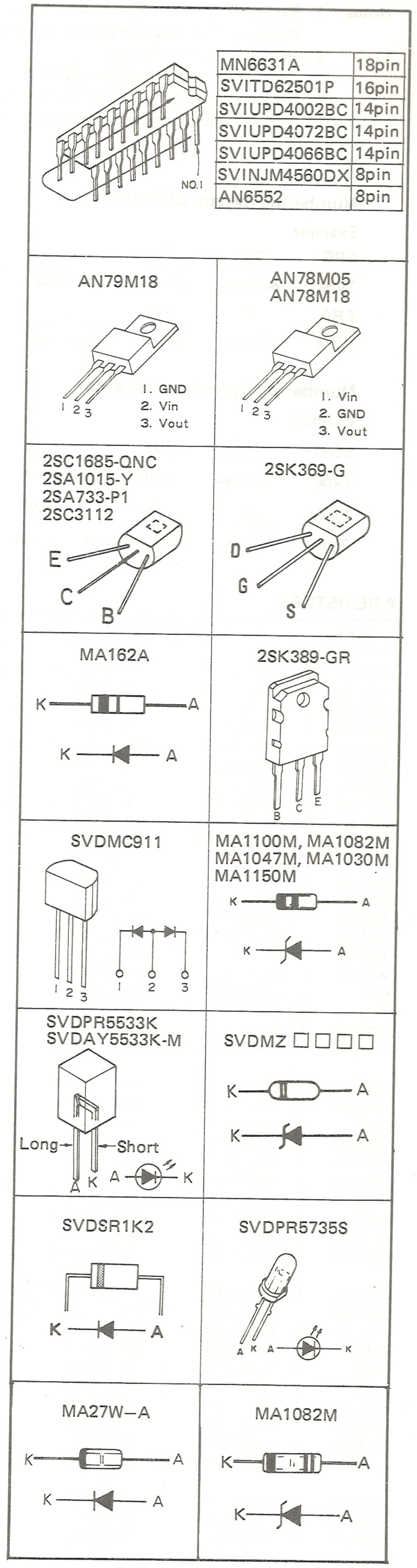

6
7
8
9
10
11
12
13
14
15
B
MAIN CIRCUIT
C
D351
SVDPR5533K
TAPE MONITOR IND.
Q101~108
2SK369
DIFFERENTIAL AMP
D101, 102
MA150
PHONO
GND
TUNER
CD
AUX 2
AUX 1 (rear)
TAPE 3
TAPE 2
TAPE 1
REC OUT
PLAYBACK
J103
J102
S101 (PHONO SELECTOR)
MM
MC
S301 (FRONT/REAR SELECTOR)
rear
front
IC101
SVINJM4560DX
EQUALIZER
J114
IC301
IC302
IC303
IC304
IC305
IC301 ~ 305
MN6631A
INPUT SELECTOR
Q212
2SA1015
INPUT SELECTOR MUTING
IC201
IC203
Z202
100K x 4
Z203
0.01 x 6
Z204
0.01 x 6
D202 ~ 209
MA150
S304 (TAPE 1)
S303 (TAPE 2)
S302 (TAPE 3)
(TUNER)
(CD)
(AUX 2)
(AUX 1)
(TAPE3 REC OUT)
(TAPE3 PLAYBACK)
(TAPE2 REC OUT)
(TAPE2 PLAYBACK)
(TAPE1 REC OUT)
(TAPE1 PLAYBACK)
RECORDING OUTPUT SELECTOR SWITCH
D
E
RECORDING IND
J201
Q751
2SA1015
D751 ~ 754
SVDPR5533K
D755
SVDAY5533K-M
STRAIGHT DC IND.
S753 (SOURCE)
S752 (TUNER)
S751 (PHONO)
(OFF)
J119
J115
J116
J110
D751 ~ 754
SVDPR5533K
D751 : REC SELECTOR (PHONO) IND.
D752 : REC SELECTOR (TUNER) IND.
D753 : REC SELECTOR (SOURCE) IND.
D754 : VIA TONE IND.
Q214, 215
2SC1685NC
INVERTER
Q214
Q215
R250 47K
R249 10K
R281 56
R318 1K
R317
R307 820K
R308
R309 820K
R310
R311 820K
R312
R301 820K
R302 820K
R303 820K
R304 820K
R101 1K
R103 2.7K
R102 1K
R104 2.7K
L101
L102
L103
L104
R137 220
R143 220
R133 560
R107 2.2
R121 390
C111 0.0047
C109 100P
R125 3.3
R115 1K
R119 1K
R129 F3.9K
R131 F47K
R127 120
C121 J0.0015
C119 G0.018
C123 G0.068
C125 25V3.3
C130 25V47
C132 25V220
C129 25V100
R220 330K
R221 330K
R222 330K
R223 330K
R224 330K
R225 330K
R226 330K
R227 330K
R228 330K
R229 330K
R219 330K


13
14
15
16
17
18
19
20
21
22
23
J114
IC301
IC301 ~ 305
MN6631A
INPUT SELECTOR
Q212
2SA1015
INPUT SELECTOR
MUTING
IC201
IC203
Z202
100K x 4
Z201
100K x 4
D202 ~ 209
MA150
Z203
0.01 x 6
Z204
0.01 x 6
IC302
IC 303
IC 304
IC 305
D211 ~ 218
SVDMC911
IC201, 202, 204, 205
SVIμPD4002BC
LATCH CIRCUIT
Q201 ~ 208
2SC1685NC
INVERTER
(INPUT SELECTOR
CONTROL)
IC203
SVIμPD4072BC
LATCH CIRCUIT
NOR
gate
OR
gate
IC 202
IC 204
IC 205
Q209 ~ 211
2SA1015
INVERTER
Q214, 215
2SC1685NC
INVERTER
D201
MA1100-M
10V ZENER
Q213
2SA1015
INPUT SELECTOR
MUTING
D219
MA150
Q216
Q217
D221
MA150
G
MUTING/IND
S551
(MUTING)
-20dB
0dB
D551
SVDPR5735S
MUTING IND.
J105
J108
S501
(MODE)
stereo
mono
D505, 506
MA27WA
SWITCHING
S502
(SUBSONIC
FILTER)
off
20Hz
DC balance adj.
(L ch.)
DC balance adj.
(R ch.)
IC501
SVINJM4560DX
DRIVE AMPLIFIER
Q501, 502, 507 ~ 510
2SC1685NC
CURRENT STABILIZER
CASCADE
Q503, 504
2SA1015
BIAS
Q505, 506
2SK389
FET DIFFERENTIAL
AMPLIFIER
D501 ~ 504
MA150
Q217
2SC1685NC
INVERTER
Q216
2SA1015
INPUT SELECTOR
MUTING
D220
SVDMZ303BM
3V ZENER
D269
MA1051M
5.1V ZENER
H
VOLUME
CONTROL
VR552-1
VR552-2
VR552-3
J106
J107
TP1
TP2
TP3
Balance
control
VR503-1
VR503-2
I
Q601, 602
2SK389
FET DIFFERENTIAL
AMPLIFIER
D601, 602
MA150
IC601
S701
(OPERATION)
Straight DC
Vid tone
Super
bass
VR704-1
VR704-2
(SUPER BASS)
J109
J201
IC702
IC7
J104
J111
J118
J117
J110
J119
J115
D251 ~ 260
SVDPR5533K
D261 ~ 268
MA150
F
INPUT SELECTOR SWITCH/IND
D251 ~ 260
SVDPR5533K
D251 : PHONO IND.
D252 : TUNER IND.
D253 : CD IND.
D254 : TV/AUX2 IND.
D255 : VIDEO/AUX1 IND.
D256 : TAPE3/DA TAPE IND.
D257 : TAPE2/VTR IND.
D258 : TAPE1 IND.
D259 : PHONO(MM) IND.
D260 : PHONO(MC) IND.
S251
S252
S253
S254
S255
S256
S257
S258


19
20
21
22
23
24
25
26
27
28
G
MUTING/IND
S551 (MUTING)
D551 SVDPR5735S MUTING IND.
H
VOLUME CONTROL
I
OUTPUT AMP/DC SERVO /POWER SUPPLY CIRCUIT
COMPUTER CONTROL
OUT
IN
S305 (COMPUTER CONTROL)
Q601,602 2SK389 FET DIFFERENTIAL AMPLIFIER
D601,602 MA150
DC balance adj. (high gain amp.)
PRE OUT
L
R
D221 MA150
D505,506 MA27WA SWITCHING
Q213 2SA1015 INPUT SELECTOR MUTING
IC501 SVINJM4560DX DRIVE AMPLIFIER
TP1
TP2
TP3
S502 (SUBSONIC FILTER)
DC balance adj. (L ch.)
Balance control
DC balance adj. (R ch.)
IC601
IC801
IC802
IC701
IC702
S701 (OPERATION)
Straight DC
Vid tone
IC601,801 SVINJM4560DX HIGH GAIN AMPLIFIER OUTPUT AMPLIFIER
IC802 AN6552F DC SERVO AMPLIFIER
Q902,903 2SC1685NC RELAY DRIVE
D913 MA1082M 8.2V ZENER
D911,912,915 MA150
Treble tone
Super-treble tone
Bass tone
Super bass
S702 (TURN OVER)
Q901,904 2SC1685 POWER ON/OFF MUTING
D901~904 906~910 SVDSR1K2 RECTIFIER
IC901 AN78M18 REGULATOR
IC902 AN79M18 REGULATOR
IC903 AN78M05 REGULATOR
D914 MA1047A 4.7V ZENER
D916 MA1030M 3V ZENER
IC702 AN6552F BUFFER AMPLIFIER
IC701 SVINJM4560DX BUFFER AMPLIFIER
AC110/120/220/240V (50/60Hz)
S1 (POWER) (Power)
F1 250V T315mA
F3 250V T400mA
T1
S2
110V
120V
220V
240V
(Voltage selector)
AC 23.0V
AC 23.0V
AC 9.0V
Q501,502,507~510 2SC1685NC CURRENT STABILIZER CASCADE
Q503,504 2SA1015 BIAS
Q505,506 2SK389 FET DIFFERENTIAL AMPLIFIER
D501~504 MA150
Q217 2SC1685NC INVERTER
Q216 2SA1015 INPUT SELECTOR MUTING
D220 SVDMZ3303BM 3V ZENER
D269 MA1051M 5.1V ZENER
D219 MA150
D251~260 SVDPR5533K
D251 : PHONO IND.
D252 : TUNER IND.
D253 : CD IND.
D254 : TV/AUX2 IND.
D255 : VIDEO/AUX1 IND.
D256 : TAPE3/DA TAPE IND.
D257 : TAPE2/VTR IND.
D258 : TAPE1 IND.
D259 : PHONO(MM) IND.
D260 : PHONO(MC) IND.
D261~268 MA150
F
R SWITCH/IND
J105
J106
J107
J108
J109
J114
J201

- Terminal guide of transistors diodes and IC's

MN6631A	18pin
SVITD62501P	16pin
SVIUPD4002BC	14pin
SVIUPD4072BC	14pin
SVIUPD4066BC	14pin
SVINJM4560DX	8pin
AN6552	8pin


NO.1
AN79M18
1. GND
2. Vin
3. Vout
AN78M05
AN78M18
1. Vin
2. GND
3. Vout
2SC1685-QNC
2SA1015-Y
2SA733-P1
2SC3112
E
C
B
2SK369-G
D
G
S
MA162A
K
A
2SK389-GR
SVDMC911
1 2 3
MA1100M, MA1082M
MA1047M, MA1030M
MA1150M
SVDPR5533K
SVDAY5533K-M
Long
Short
SVDMZ □□□□
SVDSR1K2
SVDPR5735S
MA27W-A
MA1082M

RESISTORS & CAPACITORS

Notes:
1. Part numbers are indicated on most mechanical parts. Please use this part number for parts orders.
2. Important safety notice: Components identified by ⚠ mark have special characteristics important for safety. When replacing any of these components use only manufacturer's specified parts.
3. The "Ⓢ" mark is service standard parts and may differ from production parts.
4. The unit of resistance is OHM (Ω). K = 1000Ω, M = 1000KΩ
5. The unit of capacitance is MICROFARAD (μF). $P = 10^{-6}\mu F$

Numbering System of Resistor

Example

ERD	25	F	J	101
Type	Wattage	Shape	Tolerance	Value
ERG	2	AN	J	2R2
Type	Wattage	Shape	Tolerance	Value

Numbering System of Capacitor

Example

ECKD	1H	103	Z	F
Type	Voltage	Value	Tolerance	Peculiarity
ECEA	50	M	R47	R
Type	Voltage	Peculiarity use	Value	Special use

Resistor Type	Wattage	Tolerance
ERD : Carbon ERO : Metal Film	25 : 1/4W S1 : 1W	F : ± 1% G : ± 2% J : ± 5% K : ± 10%

Capacitor Type	Voltage		Tolerance
	ECEA Type	Others	
ECEA : Electrolytic ECEA : Non Polar Electrolytic ECCD : Ceramic ECKD : Ceramic ECQM : Polyester ECQP : Polypropylene	0J : 6.3V 1C : 16V 1E : 25V 1H : 50V 25Z : 25V	2H : 500V ECQP1 : 100V	G : ±2% J : ±5% K : ±10% Z : +80%, −20% M : ±20%

● RESISTORS

Ref. No.		Part No.	Value
R101,102	Ⓢ	ERD25FJ102	1K
R103,104	Ⓢ	ERD25FJ272	2.7K
R105,106	Ⓢ	ERD25FJ221	220
R107,108	Ⓢ	ERD25FJ2R2	2.2
R109,110	Ⓢ	ERD25TJ473	47K
R113,114		ERO25CKG1001	1K
R115,116		ERO25CKG1001	1K
R119,120		ERO25CKG1001	1K
R121,122	Ⓢ	ERD25FJ391	390
R123,124		ERO25CKF82R0	82
R125,126	Ⓢ	ERD25FJ3R3	3.3
R127,128	Ⓢ	ERD25FJ121	120
R129,130		ERO25CKF3901	3.9K
R131,132		ERO25CKF4702	47K
R133,134	Ⓢ	ERD25FJ561	560
R135,136	Ⓢ	ERD25TJ334	330K
R137	Ⓢ	ERD25FJ221	220
R143	Ⓢ	ERD25FJ221	220
R201,202	Ⓢ	ERD25FJ103	10K
R203,204	Ⓢ	ERD25FJ103	10K
R205,206	Ⓢ	ERD25FJ103	10K
R207,208	Ⓢ	ERD25FJ103	10K
R209	Ⓢ	ERD25TJ824	820K
R210,211	Ⓢ	ERD25FJ103	10K
R212,213	Ⓢ	ERD25FJ103	10K
R214,215	Ⓢ	ERD25FJ103	10K
R216,217	Ⓢ	ERD25FJ103	10K
R218	Ⓢ	ERD25FJ103	10K
R219,220	Ⓢ	ERD25TJ334	330K
R221,222	Ⓢ	ERD25TJ334	330K
R223,224	Ⓢ	ERD25TJ334	330K
R225,226	Ⓢ	ERD25TJ334	330K
R227,228	Ⓢ	ERD25TJ334	330K
R229	Ⓢ	ERD25TJ334	330K
R230	Ⓢ	ERD25FJ103	10K
R231	Ⓢ	ERD25TJ104	100K
R232,233	Ⓢ	ERD25TJ683	68K
R234,235	Ⓢ	ERD25TJ683	68K
R236,237	Ⓢ	ERD25TJ683	68K
R238,239	Ⓢ	ERD25TJ683	68K
R240,241	Ⓢ	ERD25FJ103	10K
R242,243	Ⓢ	ERD25FJ103	10K
R224,245	Ⓢ	ERD25FJ103	10K
R246,247	Ⓢ	ERD25FJ103	10K
R248	Ⓢ	ERD25FJ562	5.6K
R249	Ⓢ	ERD25FJ103	10K
R250	Ⓢ	ERD25TJ473	47K
R251,252	Ⓢ	ERD25FJ221	220
R253,254	Ⓢ	ERD25FJ221	220
R255,256	Ⓢ	ERD25FJ221	220
R257,258	Ⓢ	ERD25FJ221	220
R259	Ⓢ	ERD25FJ221	220
R270	Ⓢ	ERD25TJ103	10K
R272,273	Ⓢ	ERD25TJ104	100K
R274	Ⓢ	ERD25FJ102	1K
R275	Ⓢ	ERD25TJ104	100K
R277,278	Ⓢ	ERD25FJ122	1.2K
R279	Ⓢ	ERD25FJ561	560
R281		ERD2FCG560	56
R282		ERD2FCG121	120
R301,302	Ⓢ	ERD25TJ824	820K
R303,304	Ⓢ	ERD25TJ824	820K
R305,306	Ⓢ	ERD25TJ824	820K
R307,308	Ⓢ	ERD25TJ824	820K
R309,310	Ⓢ	ERD25TJ824	820K
R311,312	Ⓢ	ERD25TJ824	820K
R313,314	Ⓢ	ERD25TJ824	820K
R317,318	Ⓢ	ERD25FJ102	1K
R351	Ⓢ	ERD25FJ221	220
R401,402	Ⓢ	ERD25FJ820	82
R403,404	Ⓢ	ERD25FJ820	82
R405	Ⓢ	ERD25FJ820	82
R406,407	Ⓢ	ERD25FJ102	1K
R408,409	Ⓢ	ERD25FJ102	1K
R410	Ⓢ	ERD25FJ102	1K
R411	Ⓢ	ERD25FJ821	820
R412	Ⓢ	ERD25FJ102	1K
R413	Ⓢ	ERD25FJ391	390
R414	Ⓢ	ERD25FJ221	220
R415		ER025CKF7500	7.5K
R416	Ⓢ	ERD25TJ104	100K
R417	Ⓢ	ERD25FJ391	390
R418	Ⓢ	ERD25FJ221	220
R419		ER025CKF7500	7.5K
R420	Ⓢ	ERD25TJ104	100K
R421	Ⓢ	ERD25FJ391	390
R422	Ⓢ	ERD25FJ221	220
R423	Ⓢ	ER025CKF7500	7.5K
R424	Ⓢ	ERD25TJ104	100K
R428,429	Ⓢ	ERD25TJ823	82K
R430	Ⓢ	ERD25FJ102	1K
R439	Ⓢ	ERD25FJ103	10K
R440,441	Ⓢ	ERD25TJ104	100K
R443	Ⓢ	ERD25FJ470	47
R444	Ⓢ	ERD25FJ181	180
R445	Ⓢ	ERD25FJ470	47
R446	Ⓢ	ERD25FJ181	180
R447	Ⓢ	ERD25FJ470	47
R448	Ⓢ	ERD25FJ181	180
R449	Ⓢ	ERD25TJ104	100K
R501,502	Ⓢ	ERD25TJ683	68K
R503,504	Ⓢ	ERD25TJ333	33K
R505	Ⓢ	ERD25TJ824	820K
R507,508	Ⓢ	ERD25TJ124	120K
R509,510	Ⓢ	ERD25FJ100	10
R511,512	Ⓢ	ERD25TJ224	220K
R513,514	Ⓢ	ERD25FJ103	10K
R515,516	Ⓢ	ERD25TJ154	150K
R519,520	Ⓢ	ERD25FJ102	1K
R521,522	Ⓢ	ERD25TJ153	15K
R523,524	Ⓢ	ERD25FJ470	47
R525,526	Ⓢ	ERD25FJ470	47
R527,528	Ⓢ	ERD25TJ473	47K
R529,530	Ⓢ	ERD25FJ331	330
R531,532	Ⓢ	ERD25FJ332	3.3K
R533,534	Ⓢ	ERD25FJ332	3.3K
R535,536	Ⓢ	ERD25FJ101	100
R537,538	Ⓢ	ERD25FJ100	10
R539	Ⓢ	ERD25FJ221	220
R541,542	Ⓢ	ERD25FJ222	2.2K
R551,552	Ⓢ	ERD25FJ392	3.9K
R553	Ⓢ	ERD25FJ561	560
R555,556	Ⓢ	ERD25FJ472	4.7K
R603,604	Ⓢ	ERD25TJ104	100K
R605,606	Ⓢ	ERD25FJ222	2.2K
R607,608	Ⓢ	ERD25FJ222	2.2K
R609,610	Ⓢ	ERD25FJ222	2.2K
R611,612	Ⓢ	ERD25FJ271	270
R613,614	Ⓢ	ERD25TJ563	56K
R615,616	Ⓢ	ERD25TJ824	820K
R701,702		ER025CKF8201	8.2K
R703,704		ER025CKF5600	560
R705,706	Ⓢ	ERD25TJ824	820K
R709,710	Ⓢ	ERD25FJ392	3.9K
R711,712	Ⓢ	ERD25FJ122	1.2K
R713,714	Ⓢ	ERD25TJ223	22K
R715,716	Ⓢ	ERD25FJ332	3.3K
R717,718	Ⓢ	ERD25TJ333	33K
R719,720	Ⓢ	ERD25TJ823	82K
R721,722	Ⓢ	ERD25FJ103	10K
R723,724	Ⓢ	ERD25FJ562	5.6K
R725,726	Ⓢ	ERD25TJ824	820K
R727,728	Ⓢ	ERD25TJ183	18K
R729,730	Ⓢ	ERD25FJ392	3.9K
R731,732	Ⓢ	ERD25TJ824	820K
R733,734	Ⓢ	ERD25FJ103	10K
R735,736	Ⓢ	ERD25TJ223	22K
R737,738	Ⓢ	ERD25TJ824	820K
R739,740	Ⓢ	ERD25FJ272	2.7K
R741,742	Ⓢ	ERD25FJ562	5.6K
R743,744	Ⓢ	ERD25FJ332	3.3K
R745,746	Ⓢ	ERD25FJ472	4.7K
R751,752	Ⓢ	ERD25FJ221	220
R753	Ⓢ	ERD25FJ103	10K
R801,802	Ⓢ	ERD25FJ222	2.2K
R807,808	Ⓢ	ERD25TJ153	15K
R809,810	Ⓢ	ERD25TJ824	820K
R811,812	Ⓢ	ERD25FJ472	4.7K
R813,814	Ⓢ	ERD25FJ472	4.7K
R815,816	Ⓢ	ERD25TJ223	22K
R817	Ⓢ	ERD25FJ103	10K
R818,819	Ⓢ	ERD25FJ471	470
R820	Ⓢ	ERD25FJ103	10K
R821,822	Ⓢ	ERD25FJ101	100
R823,824	Ⓢ	ERD25FJ560	56
R825,826	Ⓢ	ERD25FJ103	10K
R901	Ⓢ	ERD25FJ682	6.8K
R904	Ⓢ	ERD25FJ333	33K
R905	Ⓢ	ERD25TJ564	560K
R906	⚠	ERDS1FJ821	820
R907	Ⓢ	ERD25TJ563	56K

● CAPACITORS

Ref. No.		Part No.	Value
C1.2	⚠	ECKDKC103PF2	0.01
C101,102	Ⓢ	ECCD1H680KC	68P
C103,104	Ⓢ	ECCD1H220KC	22P
C105,106		ECQM1H222JZ	0.0022
C109,110	Ⓢ	ECCD1H101K	100P
C111,112		ECQM1H472JZ	0.0047
C115,116		ECEAOJU332	3300
C119,120		ECQP1183GZ	0.018
C121,122		ECQM1H152JZ	0.0015
C123,124		ECQP1683JZ	0.068
C125,126	⚠	ECEA1EN3R3S	3.3
C127,128		ECQM1H562JZ	0.0056
C129		ECEA1EU101	100
C130		ECEA1EU4R7	4.7
C132		ECEA1CU221	220
C133		ECEA1EU101	100
C135,136	Ⓢ	ECCD1H121KC	120P
C137	Ⓢ	ECKD1H102KB	0.001
C201		ECEA1CU330	33
C202,203	Ⓢ	ECKD1H333ZF	0.033
C204,205	Ⓢ	ECKD1H333ZF	0.033
C206,207	Ⓢ	ECKD1H333ZF	0.033
C208,209	Ⓢ	ECKD1H333ZF	0.033
C210		ECEA1HU2R2	2.2
C213		ECEA1CU222	2200
C214	Ⓢ	ECKD1H333ZF	0.033
C215		ECEA1CU221	220
C217		ECKD1H333ZF	0.033
C218		ECEA1AU101	100
C302		ECEA1EU470	47
C305,306	Ⓢ	ECKD1H471KB	470P
C307,308	Ⓢ	ECKD1H471KB	470P
C309,310	Ⓢ	ECKD1H471KB	470P
C311,312	Ⓢ	ECKD1H471KB	470P
C313	Ⓢ	ECKD1H471KB	470P
C314,315	Ⓢ	ECKD1H471KB	470P
C316,317	Ⓢ	ECKD1H471KB	470P
C318	Ⓢ	ECKD1H471KB	470P
C319,320	Ⓢ	ECKD1H471KB	470P
C401,402		ECEA1AU471	470
C403,404		ECEA1AU471	470
C405		ECEA1AU471	470
C406,407		ECEA1CU470	47
C408,409		ECEA1AU102	1000
C410		ECEA1AU102	1000
C412	Ⓢ	ECKD1H333ZF	0.033
C413		ECEAOJU470	47
C414		ECEA1AU101	100
C415		ECEA1CU101	100
C416,417	Ⓢ	ECCD1H330KC	33P
C418	Ⓢ	ECCD1H330KC	33P
C419,420	Ⓢ	ECKD1H102KB	0.001
C501,502	Ⓢ	ECQM1H683JZ	0.068
C503,504	Ⓢ	ECQM1H333JZ	0.033
C505,506	Ⓢ	ECKD1H681KB	608P
C507,508	Ⓢ	ECKD1H681KB	680P
C509,510	Ⓢ	ECKD1H102KB	0.001
C511,512	Ⓢ	ECKD1H333ZF	0.033
C513,514		ECEA1HU010	1
C515,516	Ⓢ	ECKD1H221KB	220P
C601,602	Ⓢ	ECCD1H181K	180P
C603,604	Ⓢ	ECCD1H270K	27P
C701,702	⚠	ECEA1CN470S	47
C703,704		ECEA1HUR47	0.47
C705,706	Ⓢ	ECKD1H561KB	560P
C707,708		ECQM1H472JZ	0.0047
C709,710		ECQM1H222JZ	0.0022
C711,712	Ⓢ	ECQM1H183JZ	0.018
C713,714	Ⓢ	ECQM1H123JZ	0.012
C715,716	Ⓢ	ECQM1H683JZ	0.068
C717,718		ECEA1HU010	1
C719,720	Ⓢ	ECQM1H154JZ	0.15
C721,722	Ⓢ	ECQM1H154JZ	0.15
C723,724	Ⓢ	ECQM1H153JZ	0.015
C725,726	Ⓢ	ECQM1H153JZ	0.015
C727,728	⚠	ECEA1CN330S	33
C729,730		ECEA1CU470	47
C731,732	Ⓢ	ECCD1H470K	47P
C801,802	Ⓢ	ECCD1H151K	150P
C803,804	⚠	ECEA1CN100S	10
C805,806		ECQM1H222JZ	0.0022
C809	Ⓢ	ECKD1H333ZF	0.033
C810		ECEAOJU470	47
C811		ECEA1EU4R7	4.7
C813,814	Ⓢ	ECKD1H471KB	470P
C815	Ⓢ	ECKD1H332MD	0.0033
C816	Ⓢ	ECKD1H103ZF	0.01
C817,818	Ⓢ	ECCD1H390KC	39P
C901,902		ECEA1VU102	1000
C903,904		ECEA1EU100	10
C906		ECEA1EU470	47
C907		ECEA1CU222	2200
C908		ECEA1AU101	100
C909		ECEA1HU3R3	3.3
C910		ECEA1CU220	22
C911		ECEA1HUR33	0.33

REPLACEMENT PARTS LIST

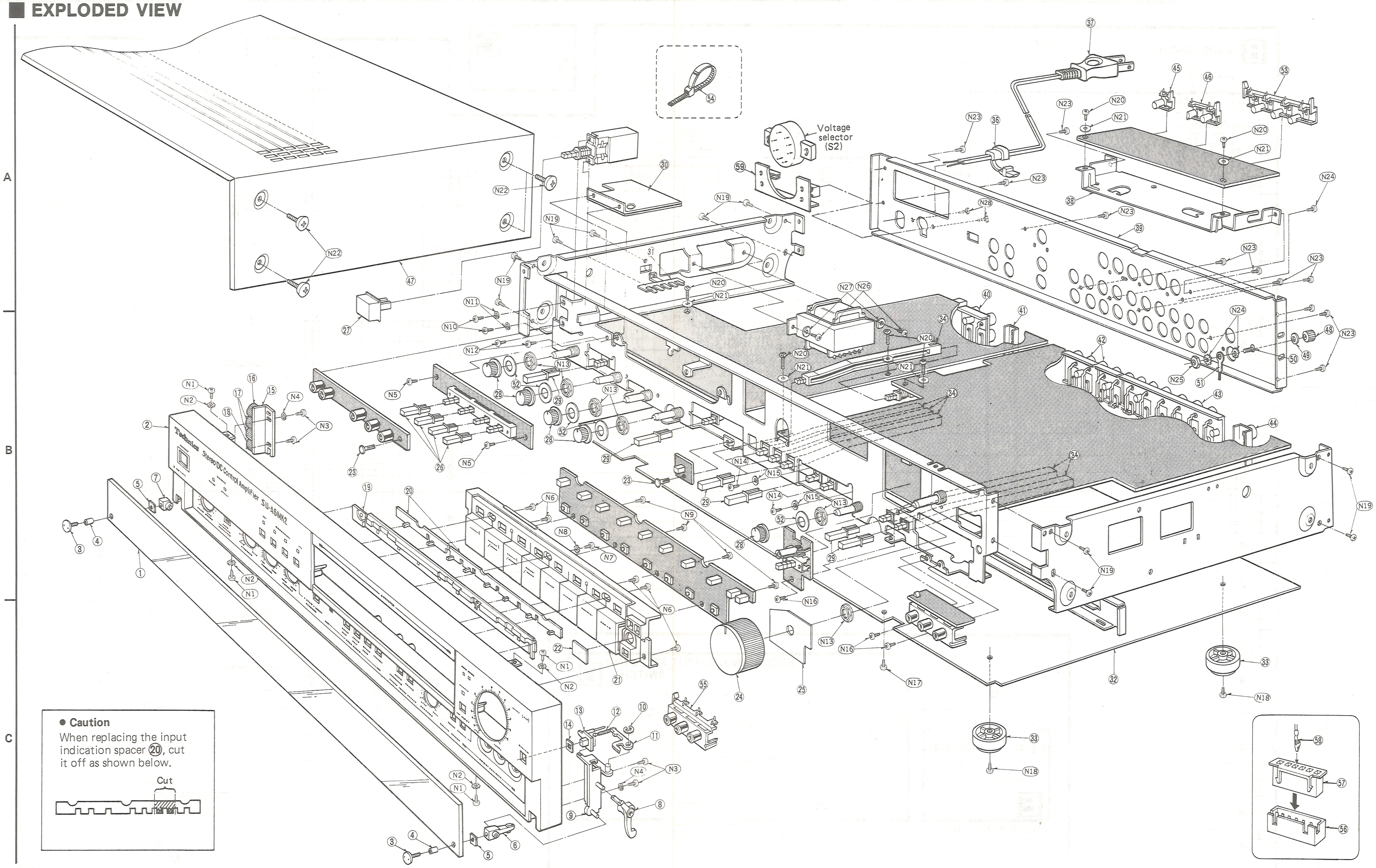
Notes:
1. Part numbers are indicated on most mechanical parts. Please use this part number for parts order.
2. Important safety notice: Components identified by ⚠ mark have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.
3. The "Ⓢ" mark is service standard parts and may differ from production parts.
4. The parenthesized numbers in the column of description stand for the quantity per set.

Ref. No.		Part No.	Part Name & Description
INTEGRATED CIRCUITS			
IC101,501,601, 701,801		SVINJM4560DX	Equalizer, Drive Buffer, Amp
IC201,202,204, 205		SVIUPD4002BC	Input selector control
IC203		SVIUPD4072BC	Input selector Control
IC301~305		MN6631A	Input selector (Voice signal)
IC401,402		SVIUPD4066BC	Input selector (Video signal)
IC403		SVITD62501P	Inverter
IC702,802		AN6552F	Buffer, DCservo
IC901		AN78M18	Regulator
IC902		AN79M18	Regulator
IC903		AN78M05	Regulator
TRANSISTORS			
Q101~108		2SK369−GR	Differential amp
Q201~208,214, 215,217,501, 502,507~510, 901~904		2SC1685−QNC	Inverter, Input selector,Relay drive
Q209~213,216, 408,503, 504, 751		2SA1015Y	Inverter, Input selector, switching
Q401~406		2SA733−P1	Buffer amp
Q409~411		2SC3112	Transistor
Q505,506,601, 602		2SK389−GR	Differential amp
DIODES			
D101,102, 202~209, 219,221, 261~268	Ⓢ	MA162A	Switching
D269		MA1051M	5.1V Zener
DIODES			
407,409~415 501~504,601, 602,911,912, 915		MA162A	Switching
D201		MA1100−M	10V, Zener
D211~218		SVDMC911	Input selector
D220		SVDMZ303BM	3V, Zener
D251~260,351		SVDPR5533K	Input selector IND
D401		MA1082M	8.2V, Zener
D505,506		MA27W−A	Switching
D402~404, 408	Ⓢ	MA162A	Input selector
D405,406		MA1150M	15V Zener
D551		SVDPR5735S	Muting IND
D751~754		SVDPR5533K	Rec output
D755		SVDAY5533K−M	DC IND
D901~904, 906~910	⚠	SVDSR1K2	Rectifier
D913		MA1082M	8.2V Zener
D914		MA1047A	4.7V Zener
D916		MA1030M	3V, Zener
COILS			
L101~104		SLQW471−1P3	Choke
L801,802		SLQ×101−2D	Choke
L902,903		SLQ×400−D	Choke
TRANSFORMERS			
T1	⚠	SLT5L185	Power Source
VARIABLE RESISTORS			
VR501,502		EVNK6AA00B52	DC offset adj, 500 Ω(B)
VR503		EWGHCA054703	Balance
VR552		EWI6SA049101	Volume
VARIABLE RESISTORS			
VR701,702		EWGHC0054C15	Treble, super treble 100kΩ(C)
VR703		EWGHCY054530	Bass
VR704		EWKK5A531B53	Supper Bass, 5kΩ (B)
VR801,802		EVNK6AA00B23	DC offset adj, 2kΩ (B)
RELAY			
RLY901		SSY9	output
COMPONENT COMBINATIONS			
Z201,202		EXBP84104K	100kΩ×4
Z203,204		EXFP6103ZW	0.01μF×6
Z401,402		EXBP87104K	100kΩ×7
Z901,902		SXRFS203ZSM	0.01μF×2
SWITCHES			
S1	⚠	ESB99399S	Power switch
S101,301		SSH2071	Phono, terminal selector
S251~258		SSG13	Input selector
S302~304		SSH469	Tape monitor
S305		RSS42A	Computer control
S501,502		SSH2073	Rec mode, Subsonic
S551		SSH1139	Muting
S701,702		SSH1137	Operation, supper Bass
S751~753		SSH471	Rec output
S2	⚠	ESE3787	Voltage Selector
FUSES			
F1,2		XBA2C03TRO	250V, T315mA
F3		XBA2C04TRO	250V, T400mA

Ref. No.	Part No.	Part Name & Description
CABINET AND CHASSIS PARTS		
1	SGU187	Transparent plate (1)
2	SGWUA6MK2−KN	Front panel Ass'y (1)
3	SNE2083	Rock pin (2)
4	SHG6131	Spacer (1)
5	SHR9575	Spacer (2)
6	SUB51	Hinge, Operation Lever(R) (1)
7	SUB53	Hinge, Operation Lever(L) (1)
8	SUB57	Operation(R) (1)
9	SUE23−1	Holder, Operation Lever (1)
10	XUC3FT	E Ring (1)
11	SUB55	Hinge, Operation Lever (1)
12	SUS223	Spring (1)
13	SBC639	Button (1)
14	SHG6129	Spacer (1)
15	SUE25−1	Holder, Gear (1)
16	SUB65	Gear (1)
17	SUB59	Gear (2)
18	SUB63	Gear (1)
19	SBCUA6MK2−KN	Input selector, Plate (1)
20	SGL165	Input selector, Spacer (1)
21	SGXUA6MK2−KN	Input selector, Button (1)
22	SDU241	Spacer, Muting (1)
23	RHR969ZA	Lock pin (2)
24	SBN1169	Knob, Volume (1)
25	SHP9377	Spacer, Volume (1)
26	SBC621	Button, Rec selector (4)
27	SBC627	Button, Power (1)
28	SBN1167	Knob (5)
29	SBC399T	Button (5)
30	SMCUA6MK2−KN	Bracket, Power Transformer (1)
31	RJR2B	Holder (1)
32	SKU8790−3	Bottom Board (1)
33	SKL247−2	Foot (4)
34	SUB99	Connection Rod (5)
36	SHR127	Bushing, AC Outlet (1)
37 ⚠	SJA138−3	AC Cord (1)
38	SMC1135	Shield cover (1)
39	SGP6050−1A	Rear Panel (1)
40	SJF3057−3N	Terminal, Computer Control (1)
41	SJF3057−4A	Terminal, Output (1)
42	SJF3057−3N	Terminal, Tape1,2 (1)
43	SJF3059−7N	Terminal, Tape3, Tuner (1)
44	SJF3225−3SA	Terminal, Phono (1)
45	SJF3061−4N	Terminal, TV, VIDEO, Tape3 (1)
46	SJF3061−3N	Terminal, Tape2 (1)
47	SKC350B2	Cabinet (1)
48	SNE4017	Terminal, Earth (1)
49	SNTA421	Terminal, Earth (1)
50	SNEA204−2S	Terminal, Earth (1)
51	RJT204A	Terminal, Earth (1)
52	SHP9319	Space (1)
53	SJF3061N	Terminal, OUTPUT (1)
54	SHR301	Clamp (8)
55	SJF3061−2N	Terminal, VIDEO Signal (1)
56	SJT3511	Post(5pin) (2)
56	SJT3611	Post(6pin) (1)
57	SJS5331	Socket(3pin) (1)
57	SJS5629	Socket(6pin) (1)
58	SJT783	Terminal (32)

Ref. No.	Part No.	Part Name & Description
SCREWS, WASHERS AND NUT		
N1 Ⓢ	XTB3+8BFZ	⊕3×8, Front Panel (1)
N2 Ⓢ	XWC3B	Washer, Front Panel (2)
N3 Ⓢ	XSN3+6S	⊕3×6 (1)
N4 Ⓢ	XWA3B	ϕ3 (4)
N5 Ⓢ	XTB3+8B	⊕3×8 (8)
N6 Ⓢ	XTB3+10B	⊕3×10 (5)
N7 Ⓢ	XTB3+8B	⊕3×8 (2)
N8 Ⓢ	XWC3B	Washer (1)
N9 Ⓢ	XTB3+8B	⊕3×8 (2)
N10 Ⓢ	XSN3+6S	⊕3×6 (2)
N11 Ⓢ	XWA3B	Washer (2)
N12 Ⓢ	XTB3+8B	⊕3×8, Shield (1)
N13	SNE4021	Washer, Volume (1)
N14 Ⓢ	XSN3+6S	⊕3×6 (5)
N15 Ⓢ	XWA3B	Washer (2)
N16 Ⓢ	XTB3+8B	⊕3×8 (2)
N17 Ⓢ	XTB3+8BFZ	⊕3×8 (1)
N18 Ⓢ	XTB3+12BFZ	⊕3×12 (4)
N19 Ⓢ	XTB3+8B	⊕3×8 (10)
N20 Ⓢ	XTV3+8B	⊕3×8 (4)
N21 Ⓢ	XWG3	Washer (4)
N22	XSSS5+12FIS	⊕5×12Cabinet (8)
N23 Ⓢ	XTB3+8BFZ	⊕3×8 (10)
N24 Ⓢ	XWC4B	Washer (2)
N25 Ⓢ	XNG4BS	Nut (1)
N26 Ⓢ	XTB3+8BFN	⊕3×8 (2)
N27 Ⓢ	XWT4	Washer (2)
N28 Ⓢ	XTB3+14BFZ	⊕3×14 (2)
PACKING PARTS		
P1	SPP689	Ployethylene Bag (1)
P2	SPH207	Sheet (1)
P3	SPS2955−6	Pad, left Side (1)
P4	SPS2957−5	Pad, Right side (1)
P5	SPG4791	Carton Box (1)
ACCESSORIES		
A1	SJP2239	Pin cord (1)
A2	TSX299	Pin cord (1)
A3	SQF12031	Instruction Book (1)
A4	SJPA11−1	Short Pin (10)

EXPLODED VIEW


A
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Stereo DC Control Amplifier SU-A6MK2
Voltage selector (S2)
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● Caution

When replacing the input indication spacer ⑳, cut it off as shown below.

A	㊼ ㉛㉚ (54) (59) ㉟ ㊵㊱ ㊶ ㊳ ㊲ ㊴ ㊺ ㊻ (53)
B	③ ④ ①⑤② ⑱ ⑰ ⑯ ⑮ ㉗㉓⑲ ⑳ ㉖ ㉘ (52) ㉘㉙(52) ㉙ ㉓ ㉙ ㉘ (52) ㉙ ㉞㉞ ㉞ ㊷ (51) ㊸ ㊹ ㊿ ㊾ ㊽
C	③ ④ ⑤ ⑥ ㉒⑭⑨⑬ ⑫㉑ ⑩⑪⑧ (55) ㉔ ㉕ ㉝ ㉜ ㉝ (58) (57)(56)

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